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BMW Information Resources

Model: All

Production: All

OBJECTIVES

After completion of this module you will be able to:

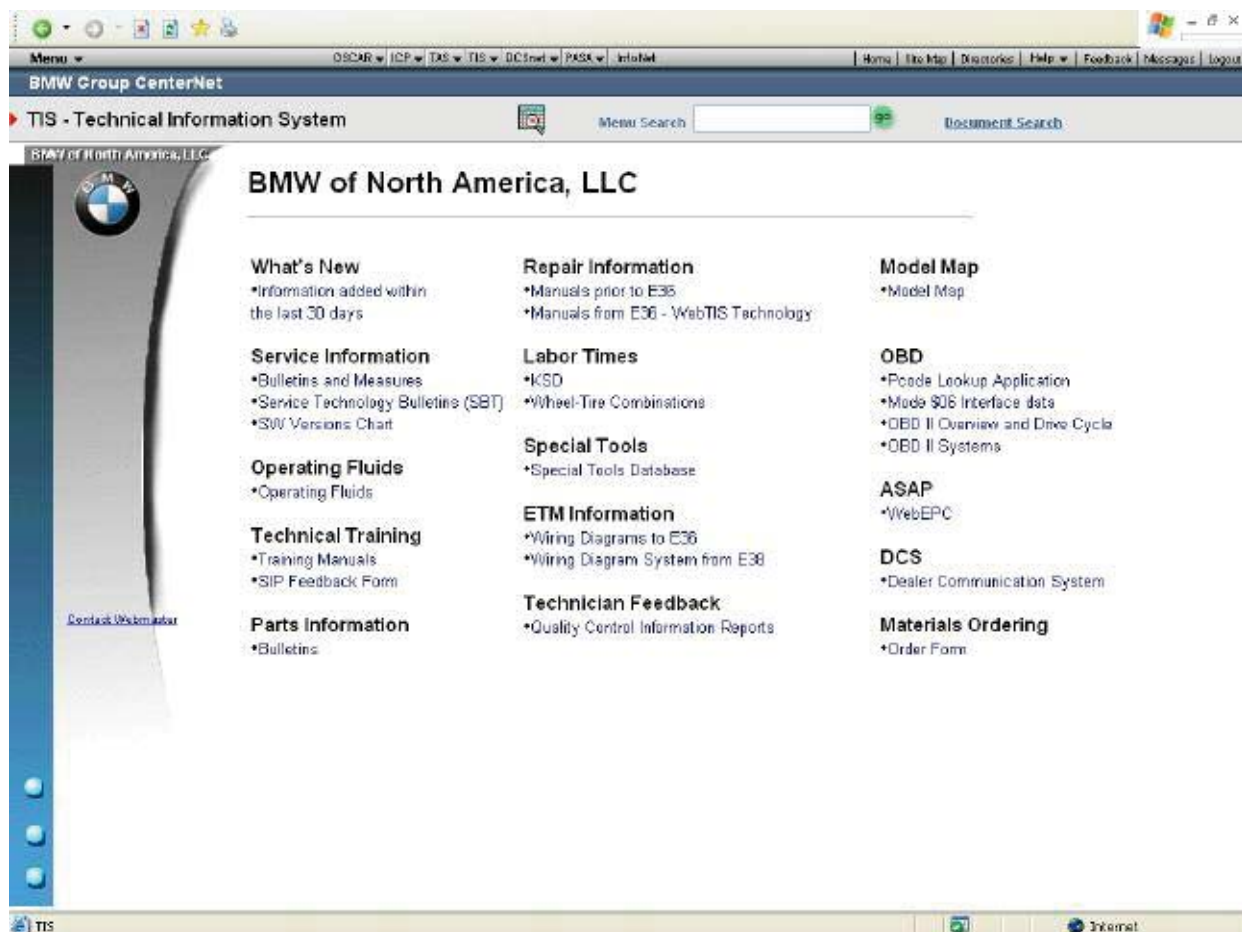
- List the different information sources located in TIS.
- Demonstrate the ability to research all sources of technical information.
- Understand how information is organized in an S.I.B or T.R.I.
- Know the difference between a Service Action and a Recall.
- Identify the different media used to resource Information materials.
- Find Service Information Bulletins quickly using the TIS website.
- Demonstrate the ability to use an Electrical Troubleshooting Manual (ETM).
- Complete practical worksheets utilizing topics covered in this module.

BMW Information Resources

The gateway to TIS (technical information systems) for BMW technicians is “**bmwdealernet.com**”. The BMW Group has dedicated much effort in creating a single place where technicians can access needed information.

After logging on technicians will be able to access a myriad of technical information including:

- Service Information Bulletins
- SI Techniques (TRI or SBT)
- Technical Data
- Tightening Torques
- Repair Instructions
- Special Tools Database
- Electronic Troubleshooting Manuals
- Technical Training Material
- Labor (flat rate) Times
- Approved Wheel/Tire Combinations
- Parts Bulletins
- Electronic Parts Catalog
- OBDII Relevant Information

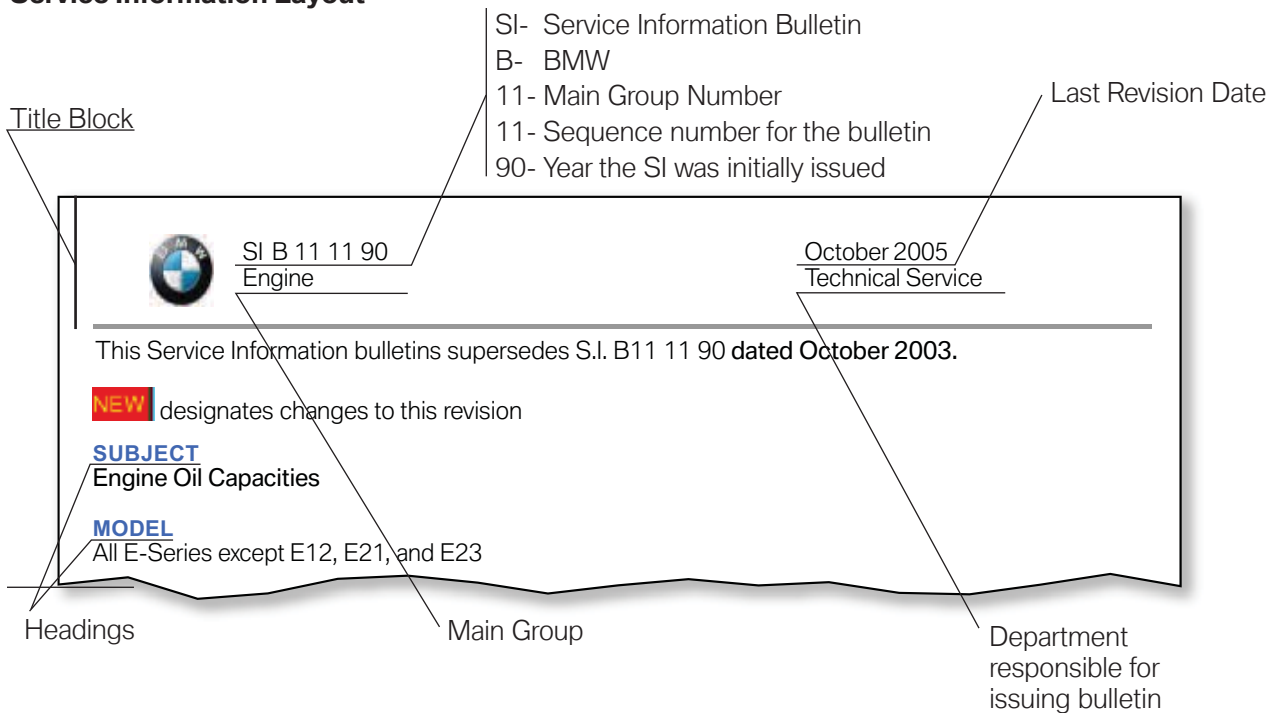


Service Information Bulletins

The purpose of the Service Information Bulletin is to communicate with the BMW Center Service Department. The SIB's are written by the Quality and Service Engineering Department and are designed to update/inform technicians and after-sales personnel concerning:

- Current Product Quality Solutions
- Diagnostic Equipment and Special Tool Information
- Service Measures, Service Actions and Recalls
- Administrative Procedures

Service Information Layout



If a SIB must be revised the number stays the same, only the revision date will be changed. (In this case the revision date is October 2005).

The Content Section of an SIB is broken into several headings:

- Subject
- Model
- Situation
- Correction
- Procedure
- Parts Information and Warranty Information

Service Actions and Recalls

There are two major kinds of service bulletins:

- Service Actions (Campaigns)
- Recalls

Service Information Bulletins that contain Service Actions and Federal Safety and Emissions Recalls must be treated with greater urgency than a normal informational bulletin. Every effort should be made to ensure that vehicles that fall under a certain Service Action or Recall is modified or repaired as quickly as possible.

The Key Reader software (SAM 2) or the DCS (Dealer Communication System) Vehicle Report is used to determine if a particular vehicle is affected or not. DCS reports should be run by the service advisor or dispatcher each time a vehicle is in the workshop for maintenance or repairs. The DCS report will include the code number and the applicable SIB reference.

■ Service Action

Service Actions, commonly are situations that BMW has determined require a modification or repair to a selected group of vehicles.

These concerns are not limited to safety or emissions but may involve anything that may be a potential cause of dissatisfaction for the vehicle owner.

BMW takes this pro-active approach to ensure that their customers are not inconvenienced by future problems when a production, manufacturing or design problem has been discovered.

Service Actions therefore allow the owners of older vehicles to enjoy some of the production improvements made on later vehicles.

Customers should be made aware of Service Actions that are applicable to their vehicles when the vehicles is in the workshop for service so that the necessary arrangements can be made to perform the corrective measure.

Service Actions are covered by the BMW New Vehicle Limited Warranty or Emissions Warranty.



SI B 11 02 04
Engine

April 2004
Technical Service

PERFORM THE PROCEDURE OUTLINED IN THIS SERVICE INFORMATION ON ALL AFFECTED VEHICLES BEFORE CUSTOMER DELIVERY OR THE NEXT TIME THEY ARE IN THE SHOP FOR MAINTENANCE OR REPAIRS.

SUBJECT

Service Action: Dipstick Guide Tube Retaining Tab Modification

MODEL

E53 X5 with the 4.6 liter M62 engine

SI B 11 02 04

■ Recalls

Recalls apply only to systems which affect passenger safety or the ability of the vehicle to meet Federal (EPA) or State (e.g. CARB) emissions standards. The federal and state agencies which oversee Highway Safety and Emissions have the authority to issue standards and require manufacturers to recall vehicles which do not meet those standards.

Many recalls are initiated voluntarily. Through their own testing and information gathering systems, manufacturers sometimes discover that a defect exists or that standards have not been met. Under Federal law, the manufacturer is required to report these findings to the Government and take action to correct them.


Unlike a Service Action, a recall requires that every owner of a potentially affected vehicle be notified by mail as soon as possible. The letter must include a brief description of the defect and any potential hazards created by the problem. The names of vehicle owners are obtained from individual State DMV (department of motor vehicle) offices.

In addition to the letters, BMW centers must inform their customers about the recall when they appear on the SAM 2 or DCS report.

Vehicles that are out of the normal warranty period may still have the repairs made free of charge as long as the time period for the recall has not expired.

After the Service Action or Recall has been completed, apply a campaign label with the appropriate code number to the B-pillar of the vehicle.

The Dealer number should be embossed in the center of the label and the code number punched out. This will make it easier for future service personnel to determine if the work has already been performed.



SI B 11 05 03
Engine

September 2003
Service Engineering

This Service Information bulletin supersedes S.I. B11 05 03 dated August 2003.

PERFORM THE PROCEDURE OUTLINED IN THIS SERVICE INFORMATION ON ALL AFFECTED VEHICLES BEFORE CUSTOMER DELIVERY OR THE NEXT TIME THEY ARE IN THE SHOP FOR MAINTENANCE OR REPAIRS.

Under the National Traffic and Motor Vehicle Safety Act of 1966, as amended, if there has been a recall campaign, centers must assure that all new vehicles and new items of replacement equipment are free of safety defects and comply with all applicable Federal Motor Vehicle Safety Standards at the time of delivery to the consumer. This means that centers may not deliver new motor vehicles or new items of replacement equipment to consumers unless the safety defect or noncompliance has been remedied before delivery.

SUBJECT
Recall Campaign 03V – 324: Retorque of Oil Drain Plug Located on Oil Filter Cover

MODEL
745i, 745Li, and 760Li produced from 5/20/2003 through 7/18/2003

SI B 11 05 03

Service Measure

A Service Measure is similar in structure and contents to a Service Information Bulletin but are not the same. The difference between the two is that a Measure is a hint or tip about a potential problem and usually includes a specific repair procedure for the situation. The Measure contains no warranty information such as warranty claims or defect codes.

PUMA cases strongly influence the creation of a service measure. Service Measures may eventually be converted into a Service Information Bulletin.

Repair Instructions

Repair Instructions assist the technician to follow authorized repair procedures for disassembly, reassembly, maintenance, and troubleshooting for all models. They include:


- Special Tool
- Tightening
- Torque
- Technical Data Information.

The document number of the Repair Instructions uses the BMW Main group numbering system.

54- Main Group Number
12- Sub-Group Number
003- Work Operation


Description of instructions.

54 12 003 Adjusting glass slide/tilt sunroof lid

 **Special tools required:**

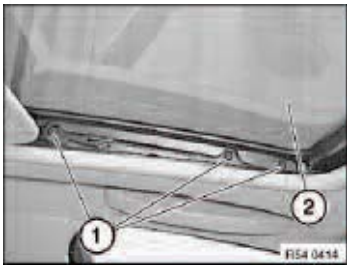
- [00 9 315](#)
- [00 9 341](#)

Link to special tools required.

 **Necessary preliminary tasks:**

- Remove [gaiter](#)

Link to additional operations required.

 Loosen left and right bolts (1).

Note:
To adjust, slacken screws (1) on left/right so that glass slide/tilt sunroof lid (2) can still just be adjusted.

Tightening torque [54 12 2AZ](#).

Link to obtain tightening torque.

Service Technology Bulletin (SBT) Technical Reference Information (S.I. Techniques)

The purpose of the SBT is to inform center personnel about new systems, vehicles and production changes. The SBT does not address any product quality concerns but might include information on operating parameters. The intention is informational only.

A benefit of a SBT is that it is usually written before the product is released so that personnel can become familiar with the new systems or technology on its way.

The layout of the Technical Reference Information is similar to a SIB. It includes:

- Title Block
- Introduction
- System Functions
- Operation

VS-42 es

Baugruppe/Group: 51
51 01 05 (122)

weltweit

Datum/Date:
01/2005
Update: 05/2005

Interior mirror with digital compass

E90, E91



Introduction

A digital compass in the interior mirror is available as special equipment (option 4NA) for the BMW 3-Series .

A small LCD display on the top right of the interior mirror shows the direction of travel: e.g. **SW** for South West.

In the USA in particular, the compass provides additional benefits. In large cities the streets are frequently arranged according to the points of the compass. The points of the compass are also marked on

Parts Bulletins

The target audience of the Parts Bulletin System are Parts Managers and their employees, however the information can be useful as reference to a Technician. The Parts Bulletins contain information concerning:

- Parts Ordering
- Parts Updates
- Vehicle Accessory Introductions
- Policies
- Warranty Information
- Parts Recalls and Campaigns

The layout is similar to that of the Service Information Bulletin. The Parts Bulletins are also arranged by the BMW Main Group numbering system. There are a few differences in groups 00 through 10, 80, 81 and 82. These groups are specific to issues concerning the Parts Department.

Technical Data (TD)

Technical data consists of specifications for systems and components.

Obtaining proper technical data is usually aided by accessing the technical data via a hotbox under repair instructions.

Tightening Torque (AZD)

Tightening torques can be obtained from the repair instructions main menu page. Obtaining proper technical data is usually aided by accessing the technical data via a hotbox under repair instructions.

Special Tools Catalog

Special tools are identified in the repair manual where their use is appropriate or required, however they may also be found in the special tools catalog on the TIS main screen.

As new tools are introduced they are published in Service Information Bulletins group 04. Later the tools can be found in the Special Tool Catalog in TIS or in the repair instructions.

Labor Times (KSD)

The KSD program is used to determine labor times allowed for repairs. The most current version of the KSD and the applicable Service Information Bulletins (S.I.B.) are the only accepted sources of flat rate operations and times for warranty claims.

Reason for Policy:

- To provide a unit of measure and a source for the determination of equitable repair times.
- To provide flat rate operation numbers to identify specific repairs.

Procedures:

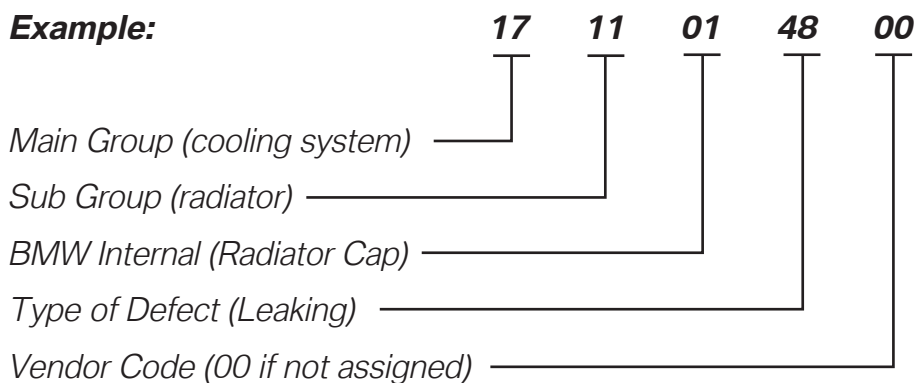
1. The BMW Flat Rate System is based upon flat rate units. Each flat rate unit is the equivalent of 7.5 minutes. The labor times for all warranty claims must be recorded in flat rate units. Effective with repairs performed on and after January 1, 2002, BMW NA will pay all labor based on an 8 FRU hour, which is providing an additional 25% increase in payment for published labor operations and work time/diagnostic time. Please refer to Service Information bulletin 01 03 01 for detailed information regarding this issue.
2. The BMW Flat Rate System is divided into numerical sections (groups) which generally correspond to the main component groups of the vehicle as identified in the service bulletins and KSD software supplied by BMW NA.
3. Main labor operations (as defined) are complete in themselves. All main labor operation numbers will end with 000 to 499 as the last three digits of the operation. A main operation includes all repair procedures to complete the task and an allowance for necessary ancillary tasks (e.g., visual inspection, lubrication with grease or oil, cleaning parts and assemblies). Refer to workshop manuals and service information bulletins for current and complete descriptions of work procedures. If you have two main labor operation numbers for a repair, overlapping labor times may exist and should be corrected before warranty claim submission. If doubt still exists after researching a labor operation number call the Warranty Department. The flat rate operations selected must be applicable to the model repaired.
4. Associated labor operations are used in conjunction with a main labor operation number. Associated labor operations consider work that has already begun and thus removes overlapping time that otherwise would occur should multiple main labor operations be combined. Associated labor operation numbers range from 500 to 999 for the last three digits of the operation number. Care should be used to select the correct associated labor operation based on the actual repair performed considering any overlapping labor times. In many of the repair groups there are multiple operations available for different repair combinations. Do not rely on memory; research the correct labor operation for the repair circumstances. If you are unsure after researching the labor operation, call the Warranty Department.

5. A plus (+) operation or plus code is a type of associated labor operation that must be applied in conjunction with performing multiple main labor repairs. One main labor operation should be used and any other main work performed should be coded with plus code operations. This removes the overlapping administrative time that otherwise would occur when utilizing multiple main labor operations. If a main operation is used during the vehicle visit for any type of repair charged to BMW NA and a plus (+) operation is available for any additional repairs, the plus (+) operation must be used.
6. The published time for all labor operation numbers cannot be changed during claim entry. The computer will pay the published flat rate value regardless of BMW center input. To claim less time because of recognized overlaps, use one of the special flat rate operation numbers for work time reimbursement (WPPM-5).
7. After researching the labor operation, if you believe the appropriate labor operation is missing or the time allowance is insufficient, report the situation to the Warranty Department. Complete a Flat Rate Survey Sheet or use your BMW center letterhead to describe the details of the situation. Be sure to include all of the applicable information (e.g., VIN for missing labor operations, labor operation number for discrepancies). Then fax this information to the Warranty Department.

Note: To ensure that only one main labor operation appears on any claim or group of claims from the same repair order, all open time/diagnostic time is to be considered as the main labor operation. All other operations on the same line or other lines of the repair order should be plus code operations if available (last three digits of the flat rate being 500 or higher).

Defect Code Number

Defect codes are necessary to specifically identify defects and provide quality control feedback. The KSD defect code catalog supplies this information in an easy to reference format that promotes accuracy and efficiency.



Dealer Communication System (DCS) Message

A DCS Message is generated by BMW if important information has to be release to the technicians or centers. This is the fastest method of communication for BMW.

Message Date 9/30/2005
Message Submitted 9/30/2005 9:17:54 AM
Subject E90 Personal Profile
Author First Name Technical Service
Author Last Name

Message

To:
BMW Service Managers
BMW Shop Foremen

Subject: E90 Personal Profile

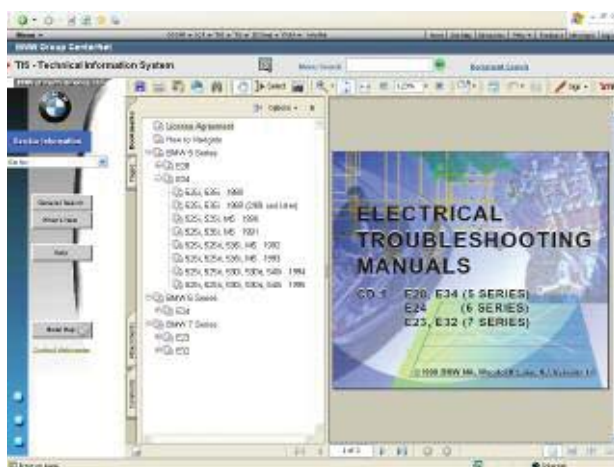
On E90 vehicles produced 9/2005 and later, it is no longer necessary to set Personal Profile features using "Retrofits". All Personal Profile functions can now be set on the vehicle using either the CID or Instrument Cluster. Refer to the Owner's Manual for complete details.

Note: On vehicles produced before 9/2005, it is not possible to activate this functionality by programming or parts replacement.

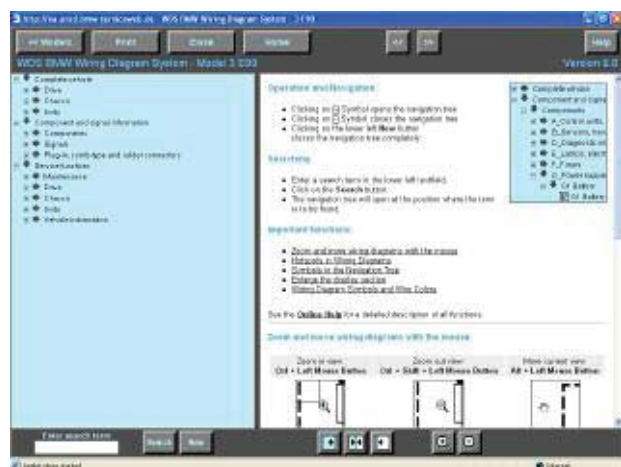
Electronic Troubleshooting Manual (ETM)

TIS also includes a link to access web-based ETMs.

Instructions for use of the web-based ETM can be found on the first window that appears.



Vehicles before E38



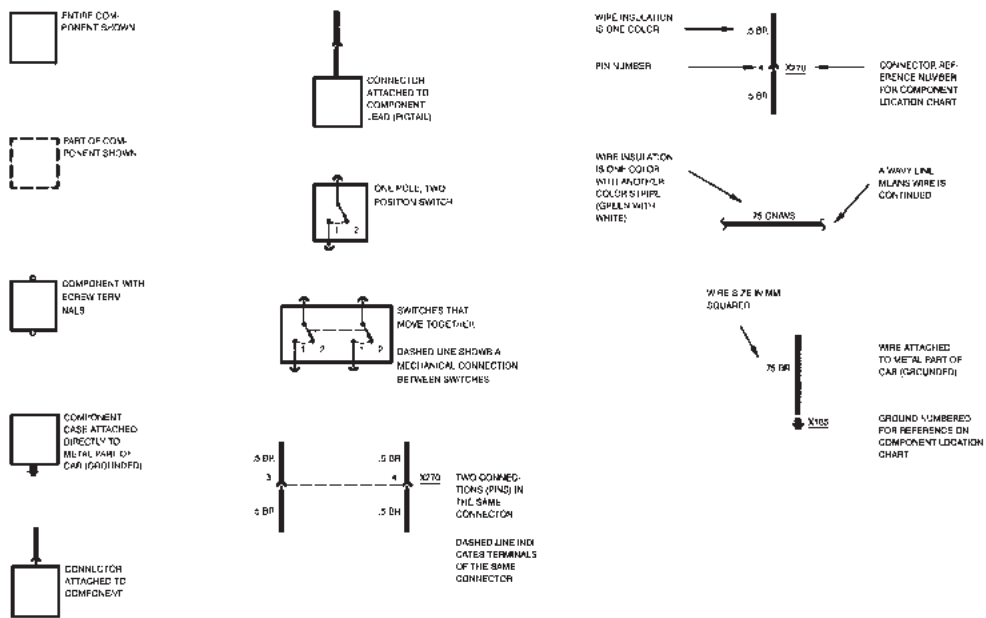
Vehicles from E38

Circuit Symbols

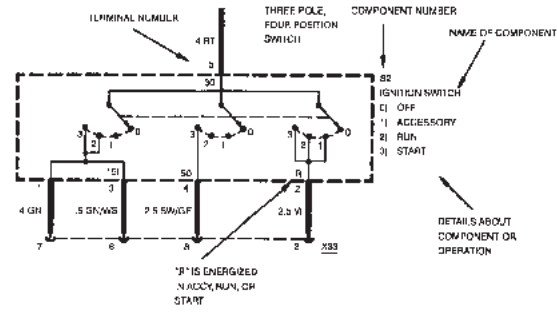
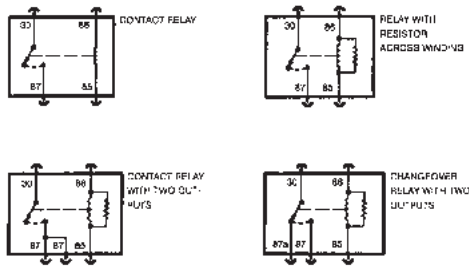
In order to work effectively with the ETM, the technician has to understand the meaning of the symbols used to represent electrical components and connections. In the introduction pages of printed ETMs there is a list of symbols that are used.



ETM Symbols

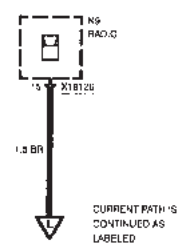
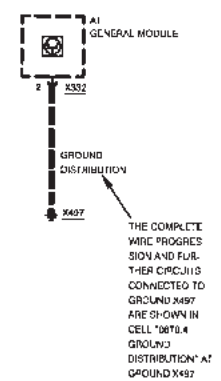
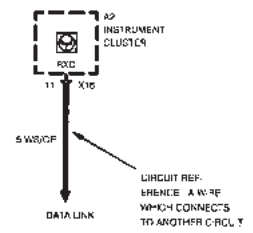
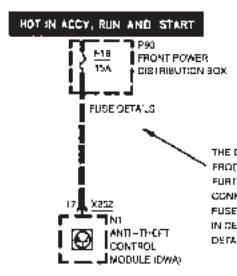


ETM Symbols (cont.)

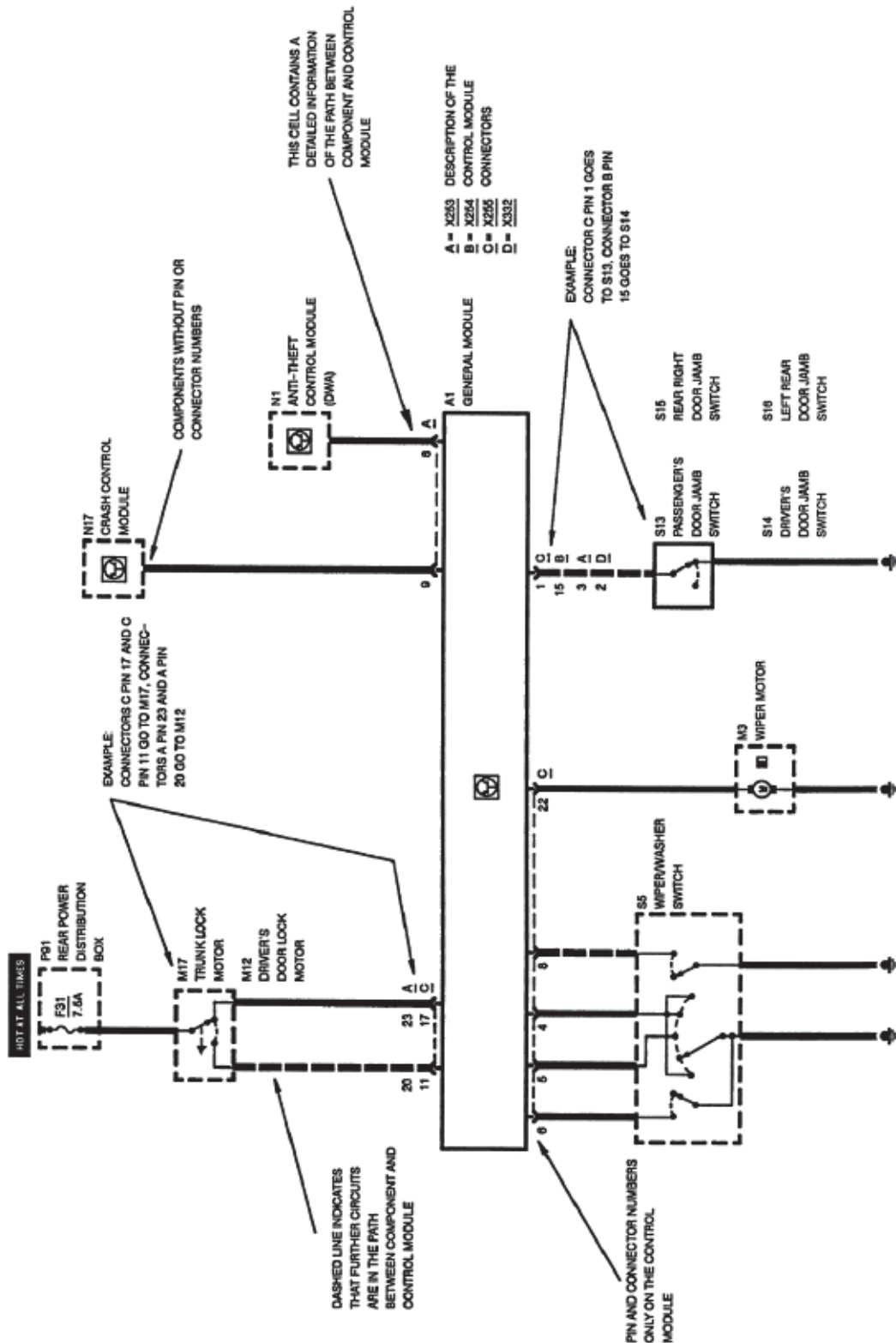


TERMINAL NUMBER	DESCRIPTION
30	RELAY INPUT
85	RELAY OUTPUT (WINDING)
86	RELAY INPUT (WINDING)
87	RELAY OUTPUT (ENERGIZED)
87A	RELAY OUTPUT (AT REST)

TERMINAL NUMBER	DESCRIPTION	TERMINAL NUMBER	DESCRIPTION
50	VOLTAGE IGNITION SWITCH IN START	15I	VOLTAGE IGNITION SWITCH IN RUN
30	VOLTAGE SUPPLIED AT ALL TIMES	R	VOLTAGE IGNITION SWITCH IN ACCESSORY, RUN OR START
15	VOLTAGE IGNITION SWITCH IN RUN OR START	31	GROUND



ETM Symbols (cont.)



The following document abbreviations can be found in the header of the document window (2) or display boxes (1):

- BS: Block Diagrams
- MM: Measuring Equipment
- EO: Component Locations
- PB: Pin Assignments
- FB: Functional Descriptions
- SO: Set Points
- FP: Test Instructions
- SP: Schematics
- HI: Help Information
- ST: Connector View
- SB: Fuse Assignments

Wire Colors with Abbreviations

TR	Transparent
WS	White
VI	Violet/Purple
BL	Blue
BR	Brown
GE	Yellow
GR	Gray
GN	Green
OR	Orange
RS	Rose/Pink
RT	Red
SW	Black

Schematics

The schematics divide the vehicle electrical system into individual circuits. Components which interact with that circuit are shown on the same schematic.

In order to provide a standard for the way in which an ETM is written and read, there are general rules that apply. Components are drawn in such a way that their general layout and function are self-explanatory. They are arranged on the page so that the current path can be followed from positive (top) to negative (bottom).

General Guidelines

(ETM rules): The schematic below will be used as an example.

1. Switches and relays are always shown in their rest position.
2. A component drawn in a dotted line indicates that only part of the component is shown.
3. A component drawn as a solid line indicates that all of that component is shown.
4. The dotted line between:

pins 3, 8, 9, 20, 21, and 22 of connector X253

pins 2, 3, 4, 9, 11, and 10 of connector X257

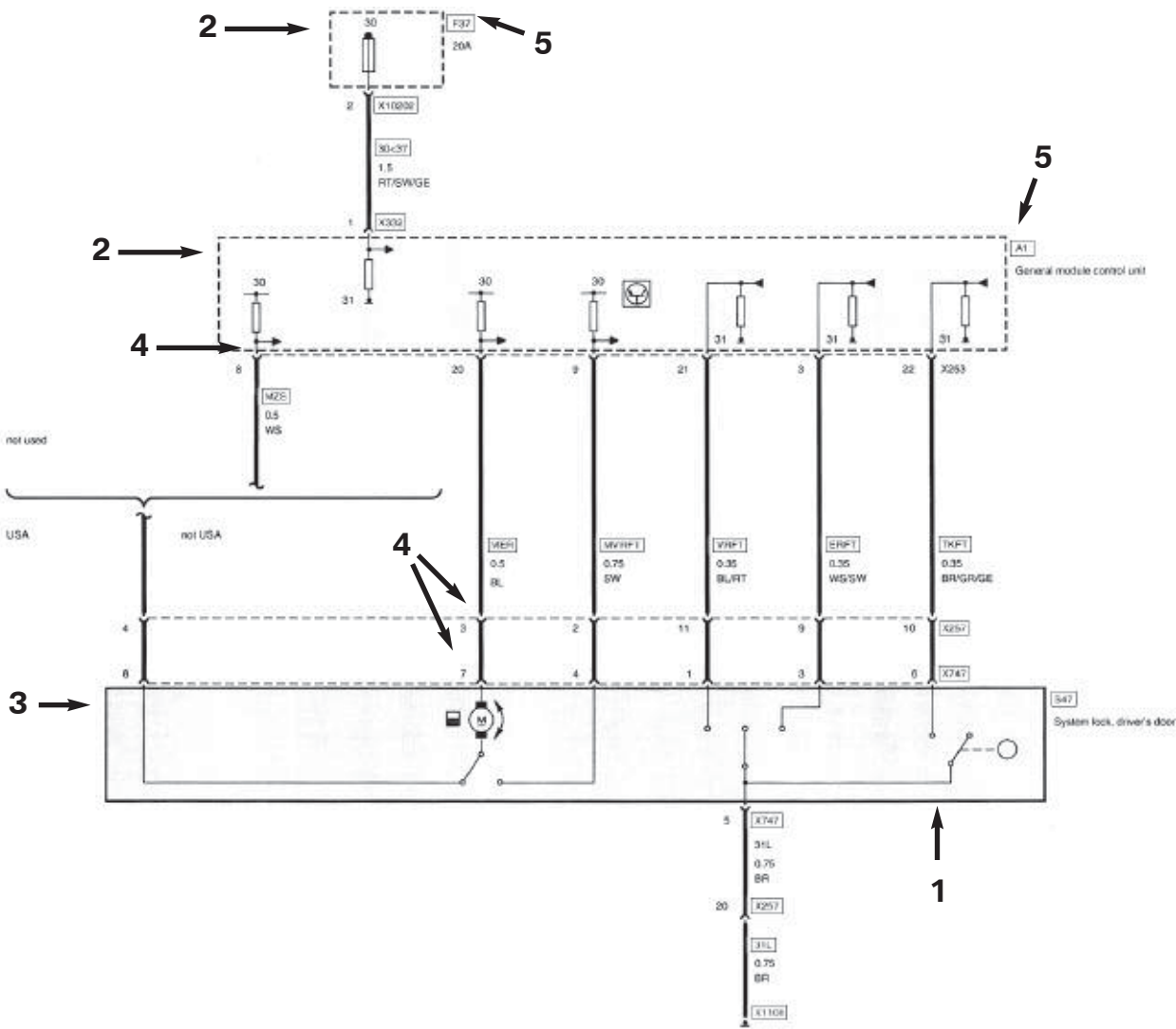
pins 1, 3, 4, 6, 7, and 8 of connector X747

indicate all the pins belong to that connector.

5. To obtain more information on a component or signal select any hotbox and press the documents button on the lower navigation bar of the diagnosis software.

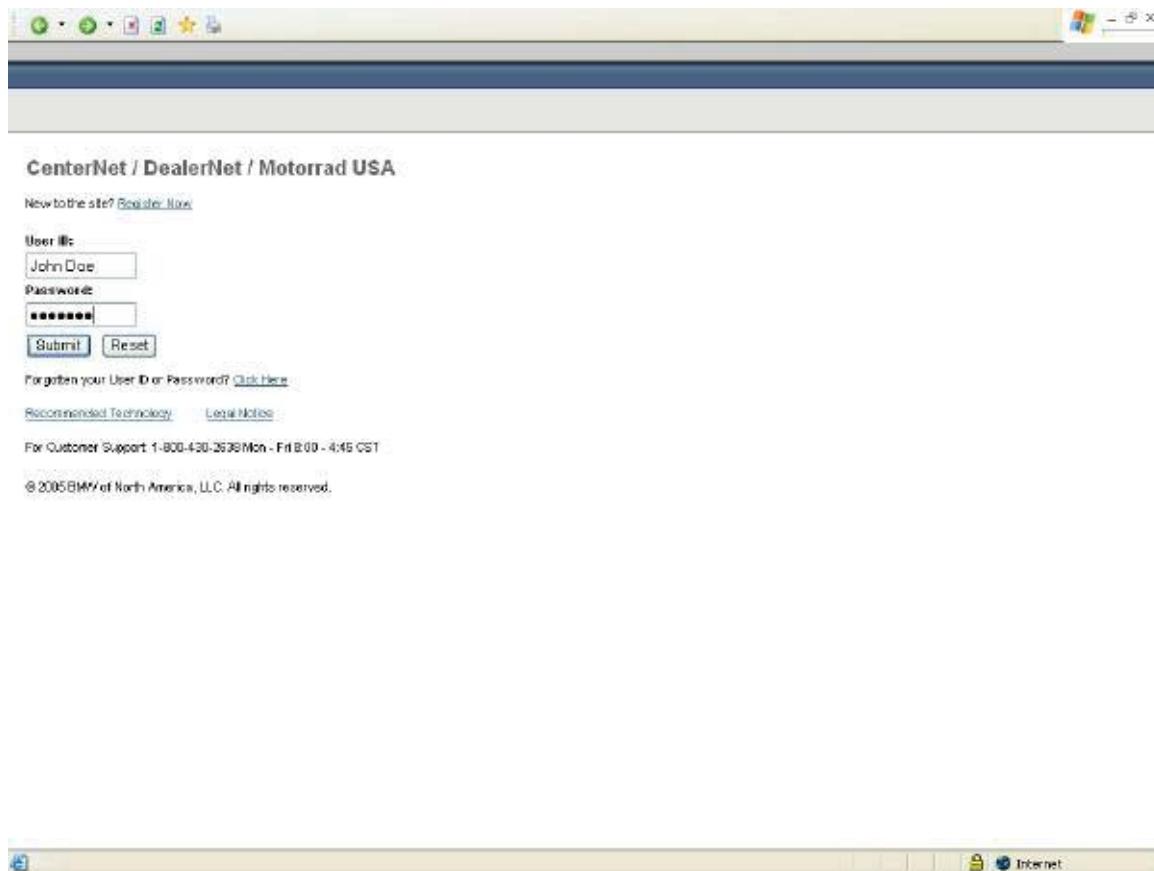
Notes:

ETM of Front Driver's Door Lock Actuator Circuit



Accessing BMW TIS

To access technical information for BMW vehicles, you must first log on to www.bmwdealernet.com using your web browser.

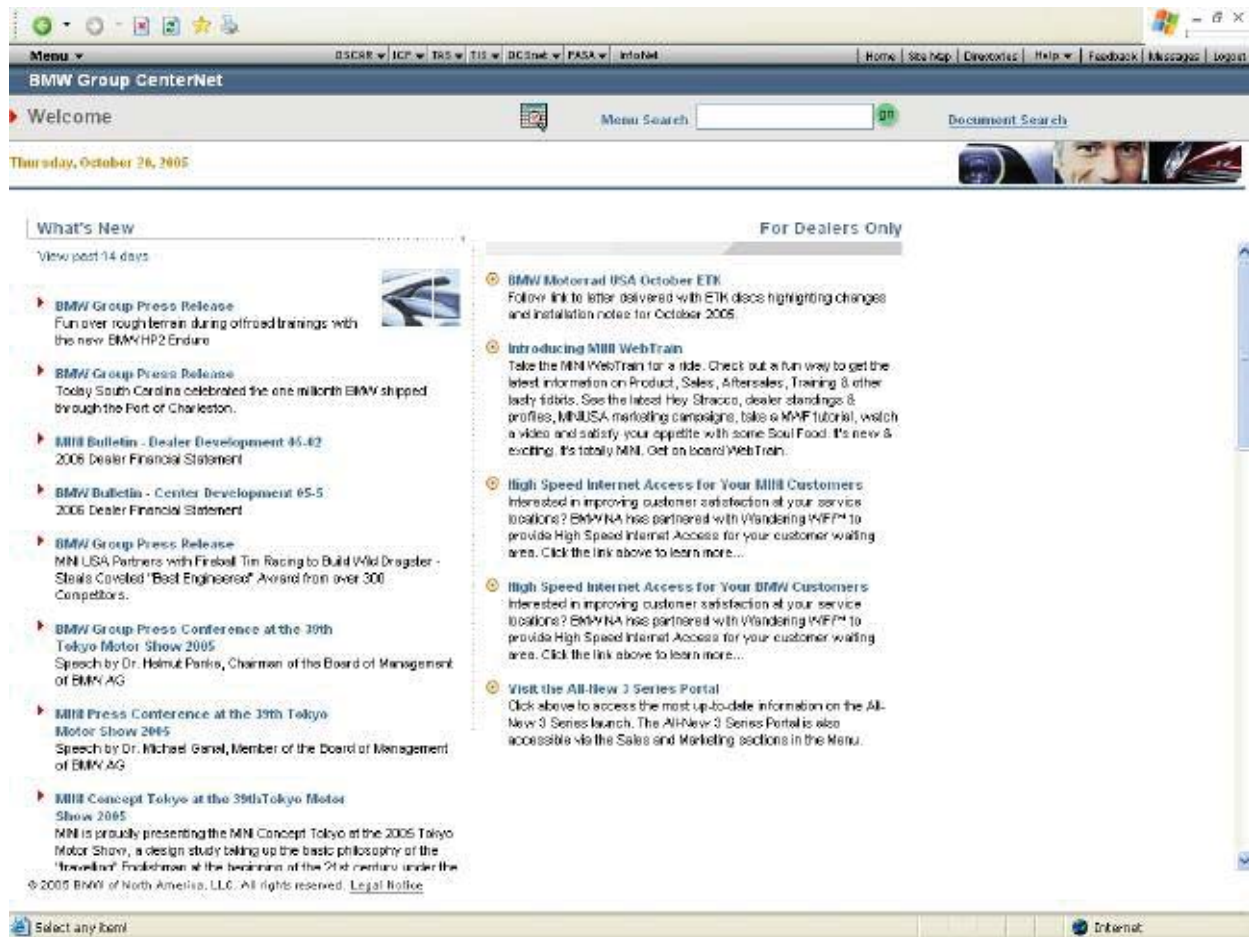


Access to the BMW DealerNet website will be granted when a valid employee is entered in the dealer system by the center/field service engineer.

BMW Group Dealernet

The screen that comes up next is the BMW Group Dealernet. This is the website dedicated to information pertaining to center operations.

Information on every aspect of the center is displayed here, from sales/marketing bulletins to new information on products available.



To Access BMW TIS, select **TIS** from the top menu bar and then select **BMW** from the "drop down" menu.



Personal Notification System Messages

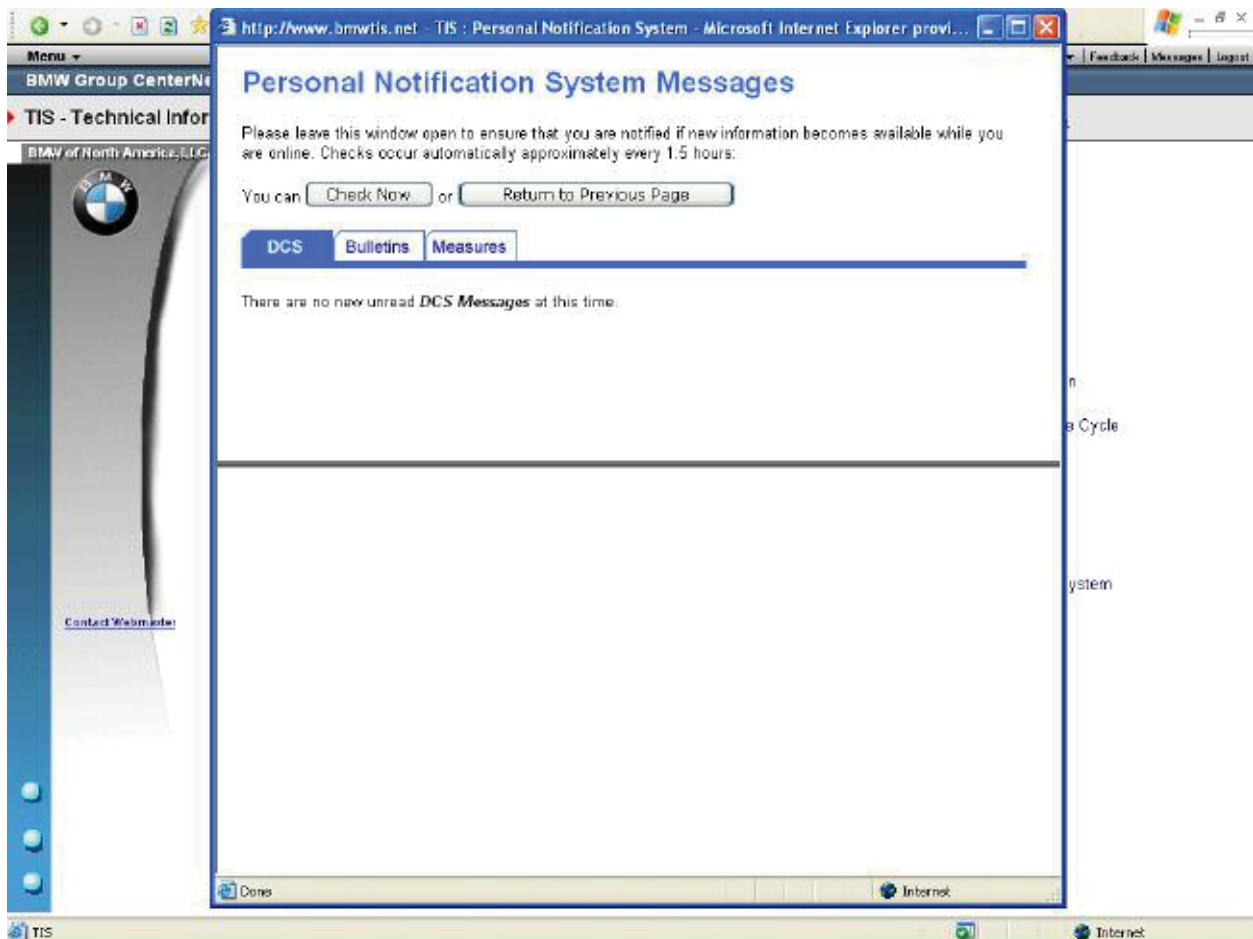
The first window that comes up once selecting TIS => BMW is the Personal Notification System Messages pop-up.

On this window, you will find information on the latest DCS messages (last 5 days), bulletins (last 30 days), and service measures (last 30 days) that you have not yet accessed.

Example: *If you read the DCS messages on the Personal Notification System Messages window, the next time you log on, the message will no longer be displayed on this window. If a new messages are generated, those will be displayed.)*

The information in this window is refreshed every 1.5 hours less. This enables the technician to receive the most up to date information.

To continue access to TIS, **minimize** the Personal Notification window. (A security alert might be displayed depending on browser security settings).

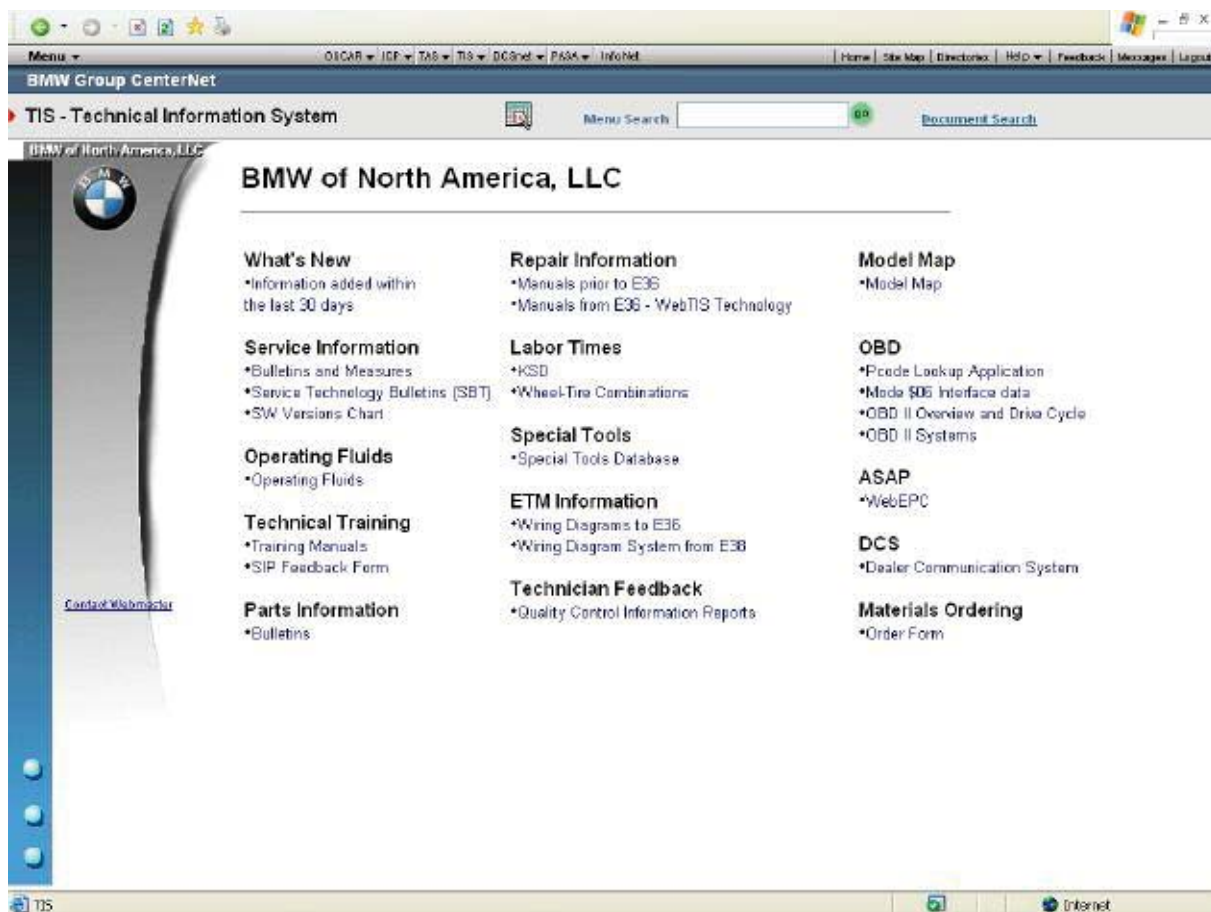


Note: This screen should be minimized and not closed in order to allow the latest information to be displayed as soon as it is available.

TIS Home Page

The TIS home page includes the following major links to information on the site:

- What's New
- Service Information
- Operating Fluids
- Technical Training
- Part Information
- Repair Information
- Labor Times
- Special Tools
- ETM Information
- Technician Feedback
- Model Map
- OBD
- ASAP
- DCS
- Material Ordering



What's New

Entering **What's New** will reveal new information added to database in the last 30 days. Information includes:

- Service Bulletins
- Parts Bulletins
- Training Manual Updates
- Repair Manual Updates
- ETM Manual Updates
- Service Measures
- Operating Fluids Manual



Detailed information is available by selecting the appropriate Bulletin or Update.

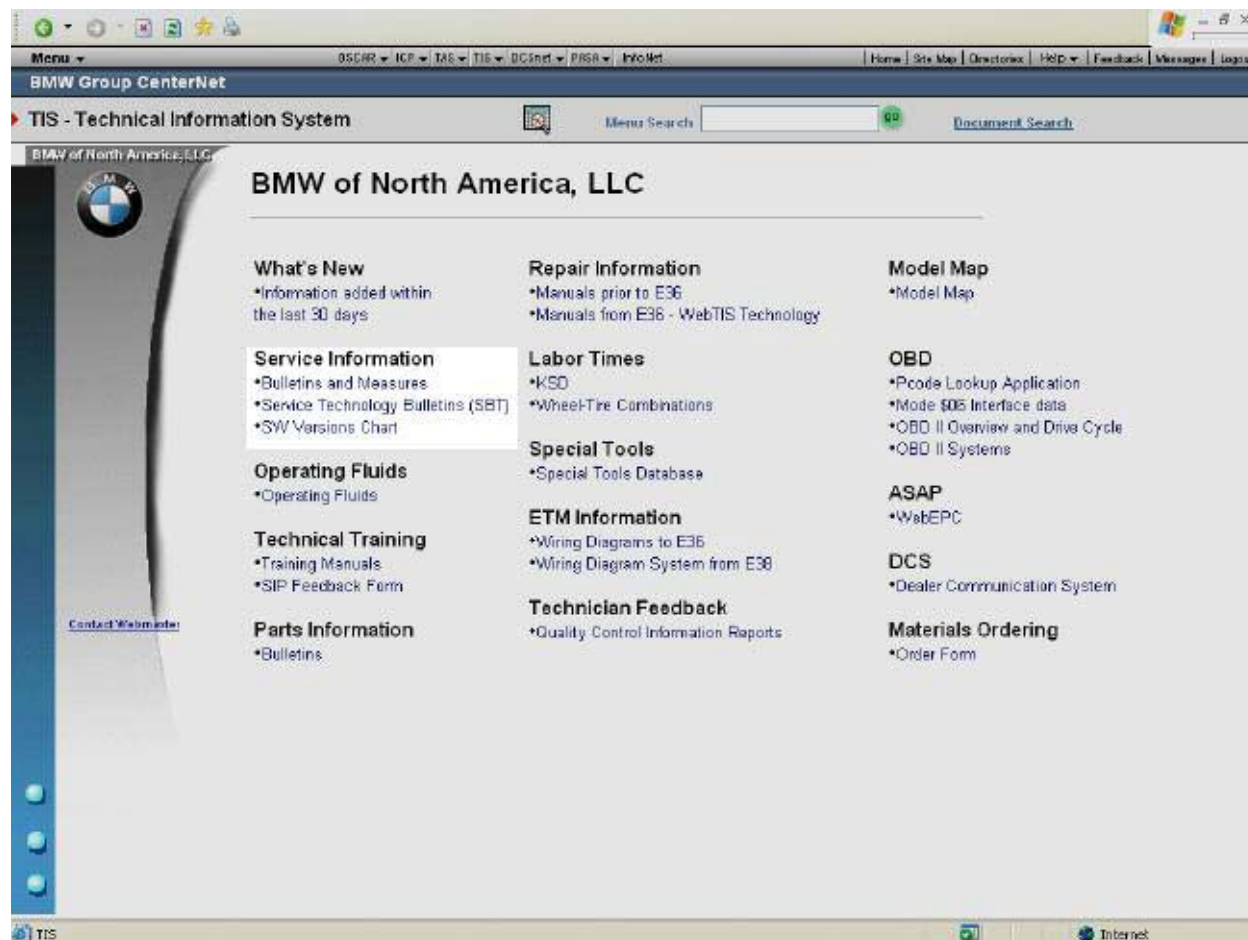
To select the desired bulletin select the blue underlined hyperlink.

Bulletin Number	Type	Date	Subject	Series
00.01.05	SI	September 2005	New Vehicle Preparation and Maintenance Requirements	E48, E80, E81, E83, E84, E65, E66, E90, E91
02.01.05	SI	October 2005	BMW Assist Program Changes for September 2005	E80, E81, E83, E84, E65, E66, E83, E85, E90
03.01.99	SI	September 2005	Technical Training Schedule - 4th Quarter 2005	All
04.26.05	SI	September 2005	Engine Tools	E80, E81, E85, E90, E91
04.11.02	SI	September 2005	New Automatic Battery Charger	All
05.01.05	SI	September 2005	TeleService - Changing a Customer's Preferred Home Dealer	All
07.02.98	SI	October 2005	CD43.1: Updated DISplus and GT1 Software	All
08.08.05	SI	October 2005	Service Action: Correction to Integration Level	E64
08.07.05	SI	September 2005	Release Notes CIP 19.0 and CIP 19.1	All
100.10.05	SI	October 2005	Service Round Table - October 13, 2005 Show	All
11.08.05	SI	October 2005	Service Action: N62TU Coolant Supply Hose Replacement	E65, E86
12.19.05	SI	October 2005	Service Action: N52 Reprogram Vehicle for OBD Diagnostic	E80, E81, E90, E91
12.18.05	SI	September 2005	N52 and N62TU Engine Diagnosis Test Plan Updates	E63, E60, E83, E84, E65, E66

Service Information

There are three sub-sections under Service Information. They are:

- Bulletins and Measures
- Service Technology Bulletins (SBT)
- Software (SW) Versions Chart



The screenshot shows the BMW of North America, LLC TIS - Technical Information System website. The page is titled "BMW of North America, LLC" and features a navigation menu at the top with options like "Menu", "OSCAR", "ICP", "TAS", "TIS", "DCNet", "PRSR", and "InfoNet". A search bar is located below the navigation menu. The main content area is organized into several columns, each with a heading and a list of links:

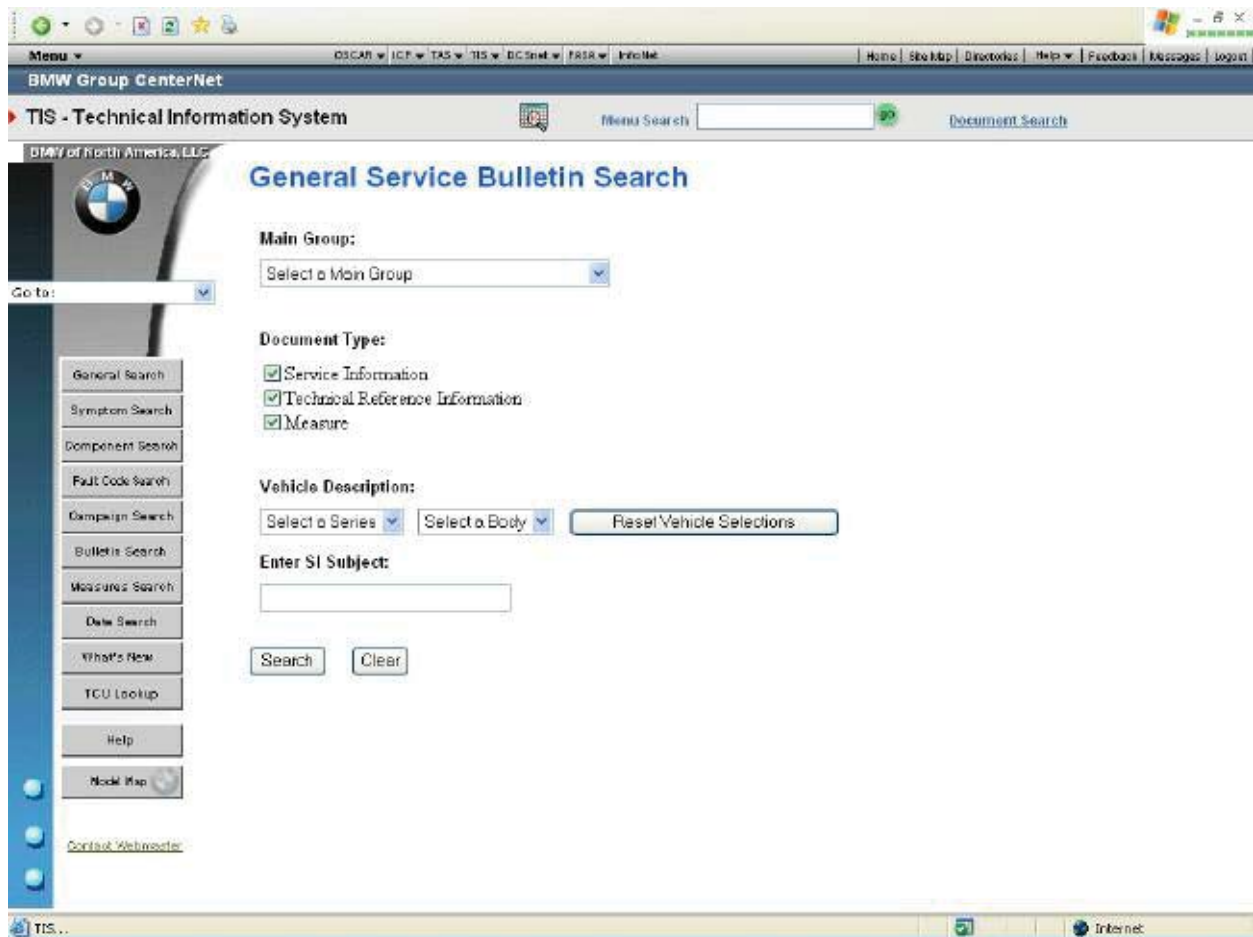
- What's New**
 - Information added within the last 90 days
- Service Information**
 - Bulletins and Measures
 - Service Technology Bulletins (SBT)
 - SW Versions Chart
- Operating Fluids**
 - Operating Fluids
- Technical Training**
 - Training Manuals
 - SIP Feedback Form
- Parts Information**
 - Bulletins
- Repair Information**
 - Manuals prior to E36
 - Manuals from E36 - WebTIS Technology
- Labor Times**
 - KSD
 - Wheel-Tire Combinations
- Special Tools**
 - Special Tools Database
- ETM Information**
 - Wiring Diagrams to E36
 - Wiring Diagram System from E38
- Technician Feedback**
 - Quality Control Information Reports
- Model Map**
 - Model Map
- OBD**
 - Code Lookup Application
 - Mode \$05 Interface data
 - OBD II Overview and Drive Cycle
 - OBD II Systems
- ASAP**
 - WebEPC
- DCS**
 - Dealer Communication System
- Materials Ordering**
 - Order Form

Bulletins and Measures

Entering Service Information, Bulletins and Measures, allow searching and selection of Service Bulletins.

Service Bulletins are searchable by:

- General Search
- Symptom Search
- Fault Code Search
- Campaign Search
- Bulletin Search
- Measures Search
- Date Search
- What's New

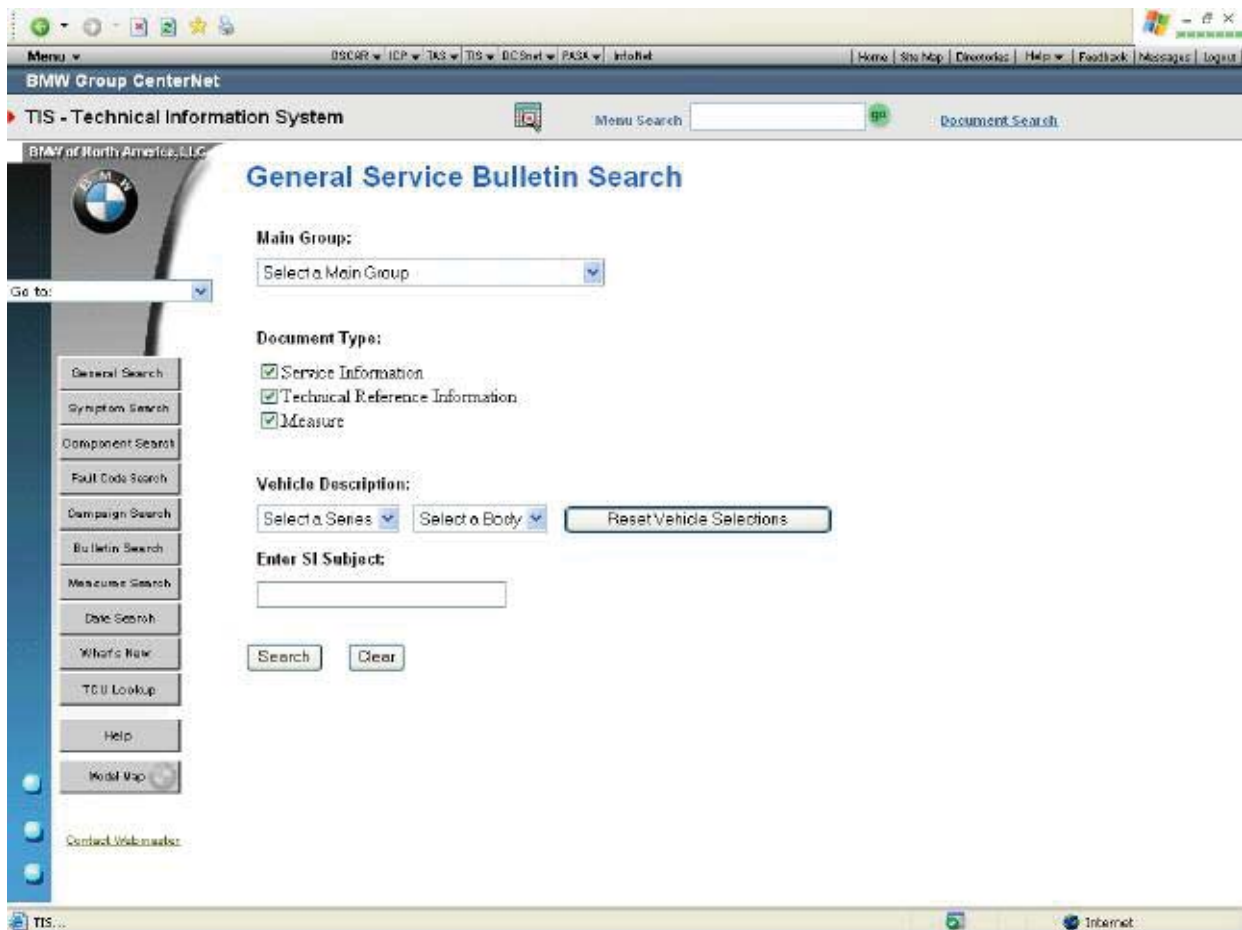


General Search

Used for looking up bulletins by group number and vehicle designation.

Entering information on all fields is not required and might even reduce the number of search results.

Entering a minimal information in the fields increases the number of search results.

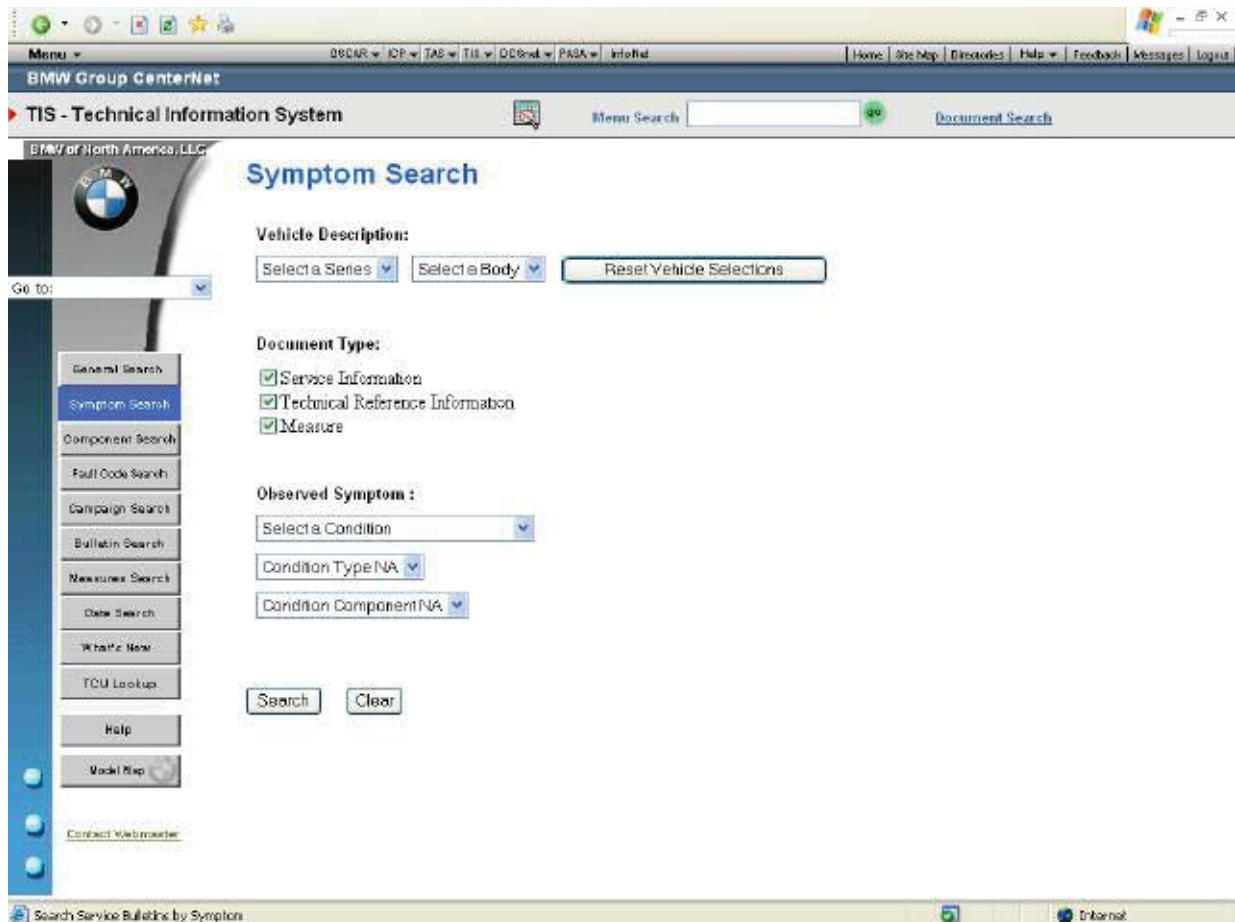


Symptom Search

The Model, Series and Body may be entered,, then under “Observed Symptom”, Select a condition, Condition Type and Condition Component.

It is however **NOT** Required to enter the Model, Series or Body.

By entering only general information, such as selecting only a condition, a greater number of responses are returned.



Component Search

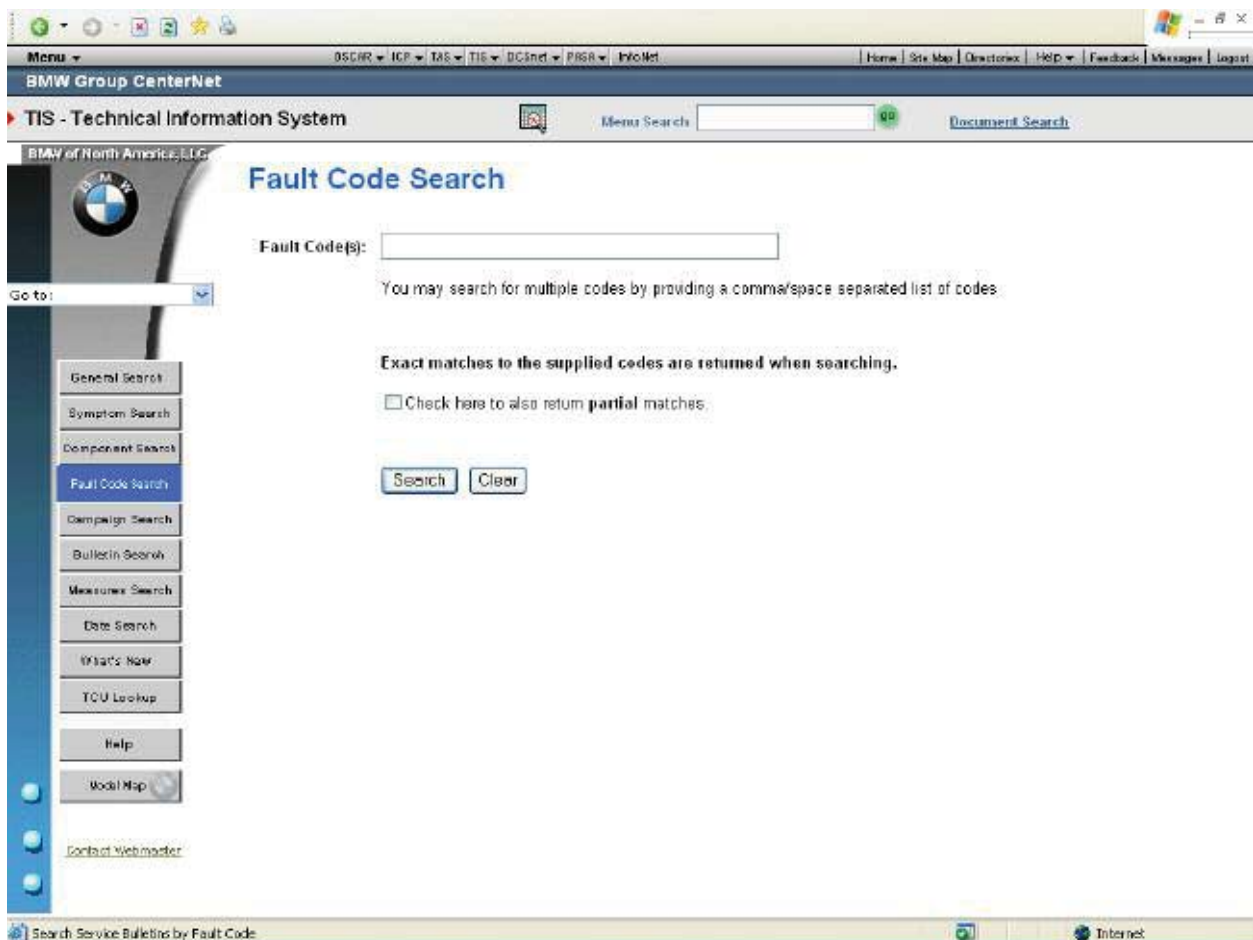
This feature allows for the search of a bulletin, measure, or technical information bulletin based on components.



Fault Code Search

A bulletin search can also be performed by entering the fault code retrieved from a module during a fault interrogation.

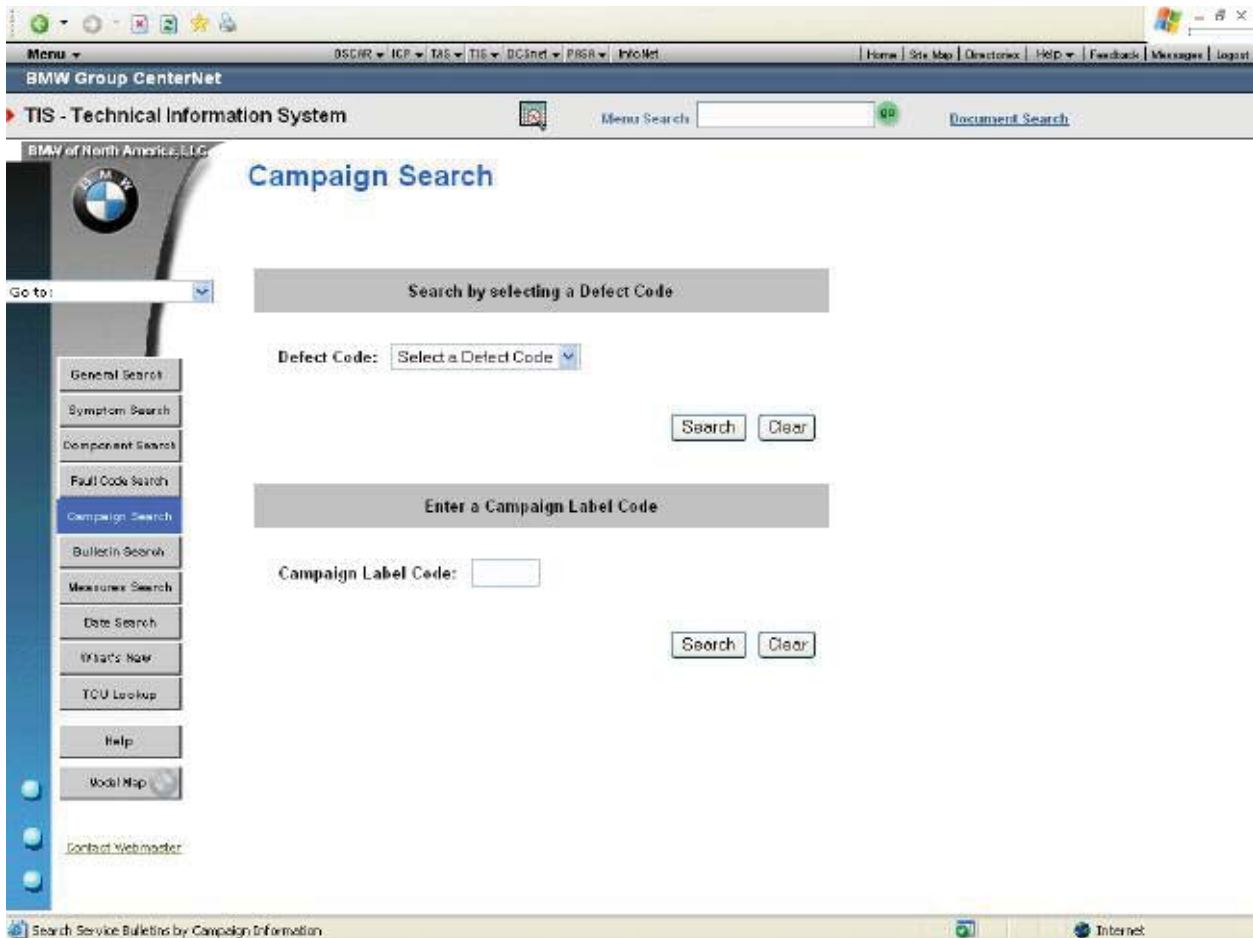
Searches of partial fault code number are possible.



Campaign Search

A bulletin can be searched for by entering the defect code.

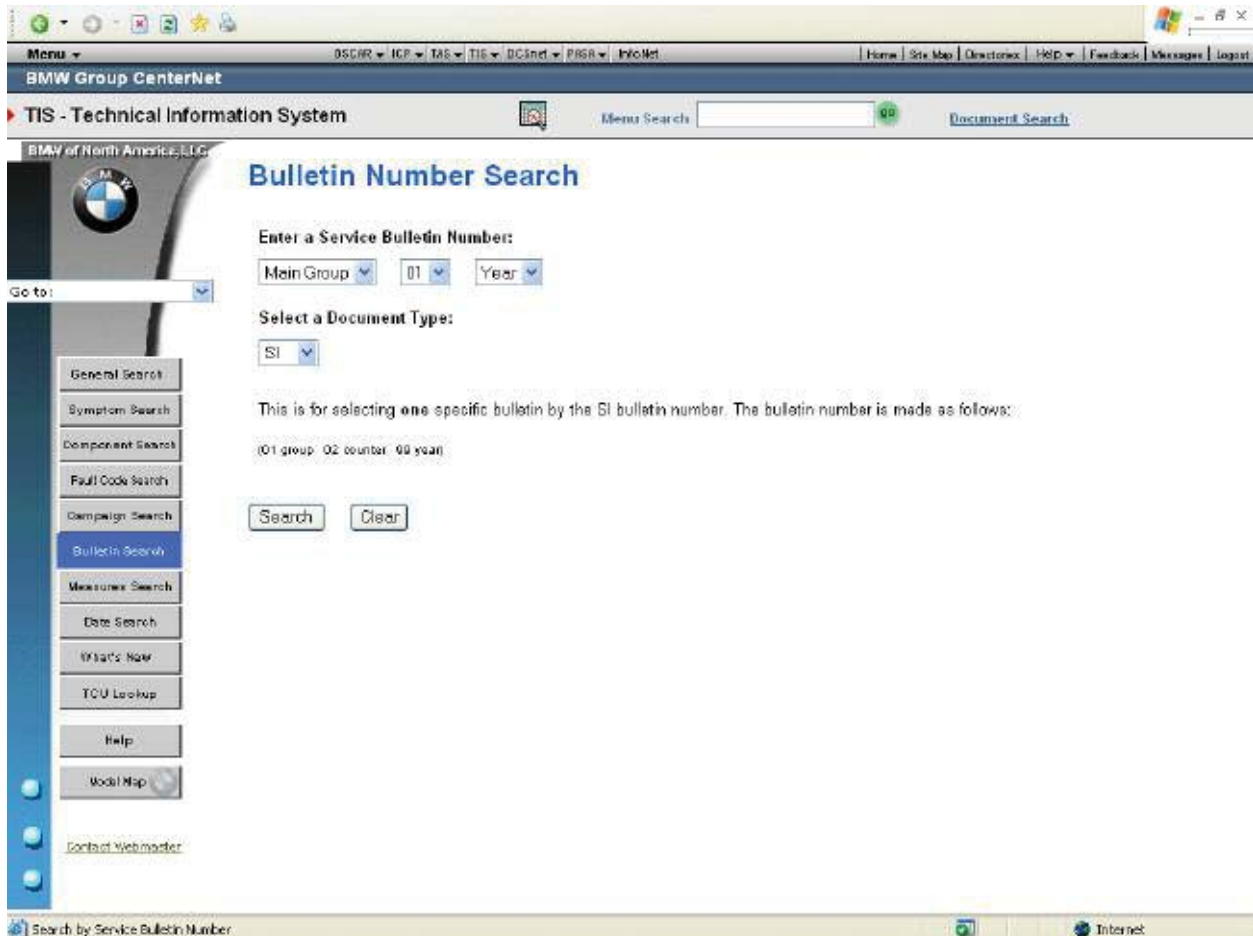
This can be helpful if the vehicle has a campaign label on the b-pillar or if the DCS message says to perform a defect code campaign instead of giving the bulletin number.



Bulletin Search

If the exact number of the bulletin searched for is known, enter the information for the fields displayed.

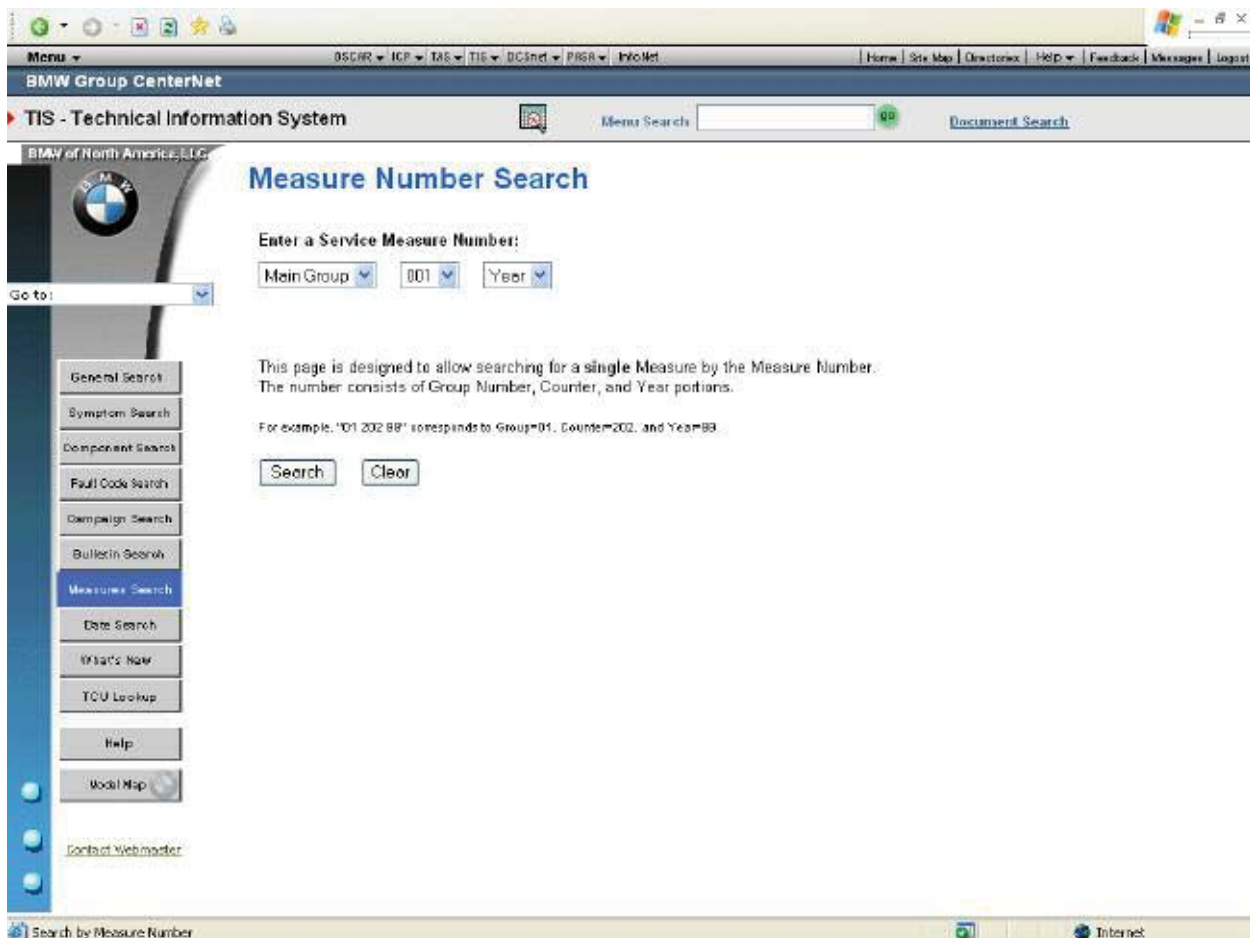
Searches by partial SIB number are not possible.



■ Measure Search

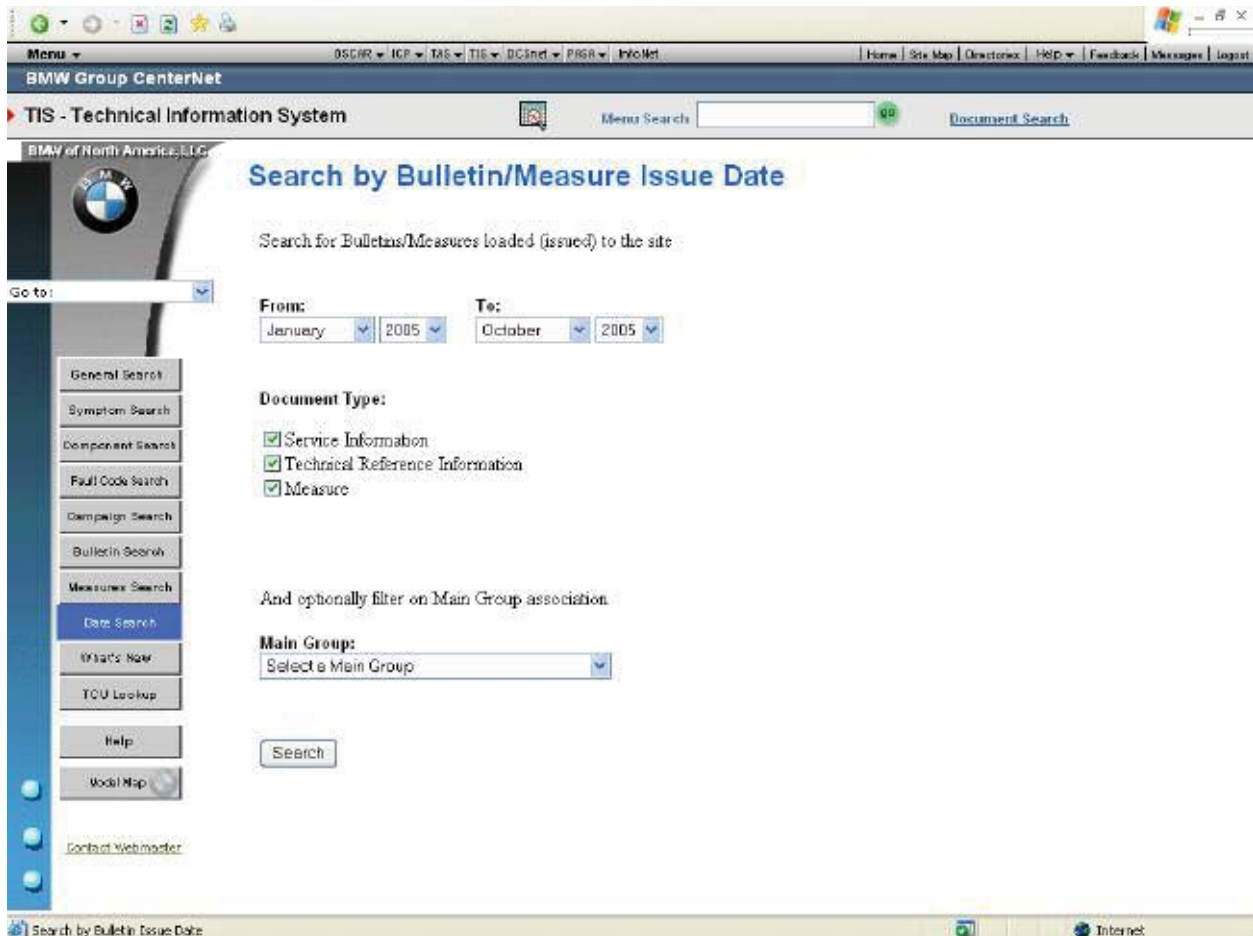
Similar to a bulletin search, this feature allows the user to enter the exact number for a measure.

This page searches for only **ONE** Measure. A search by partial measures number is not possible.



Date Search

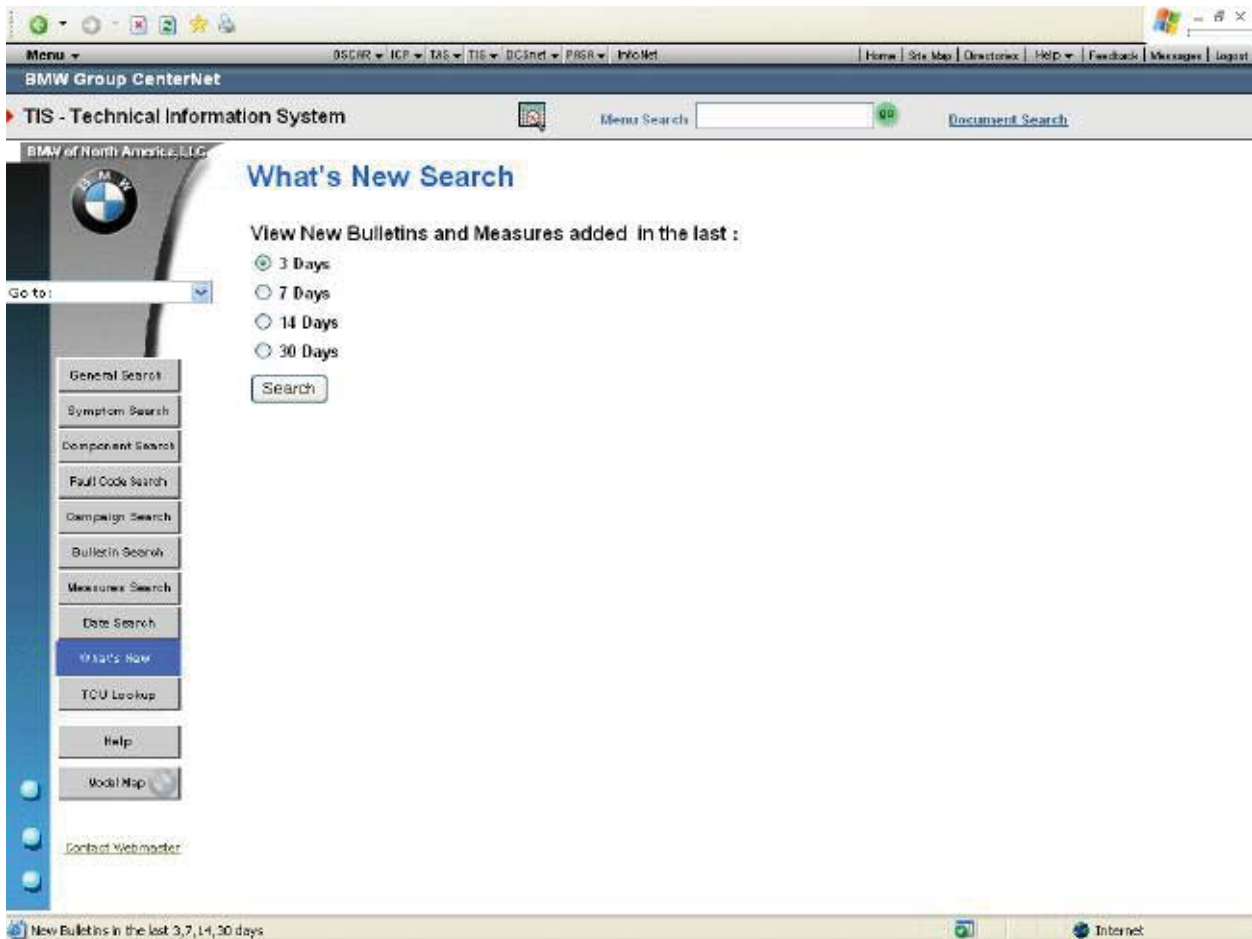
Date Search allows the search of bulletins and measures by a specific date range. All groups or individual groups may be searched.



What's New Search

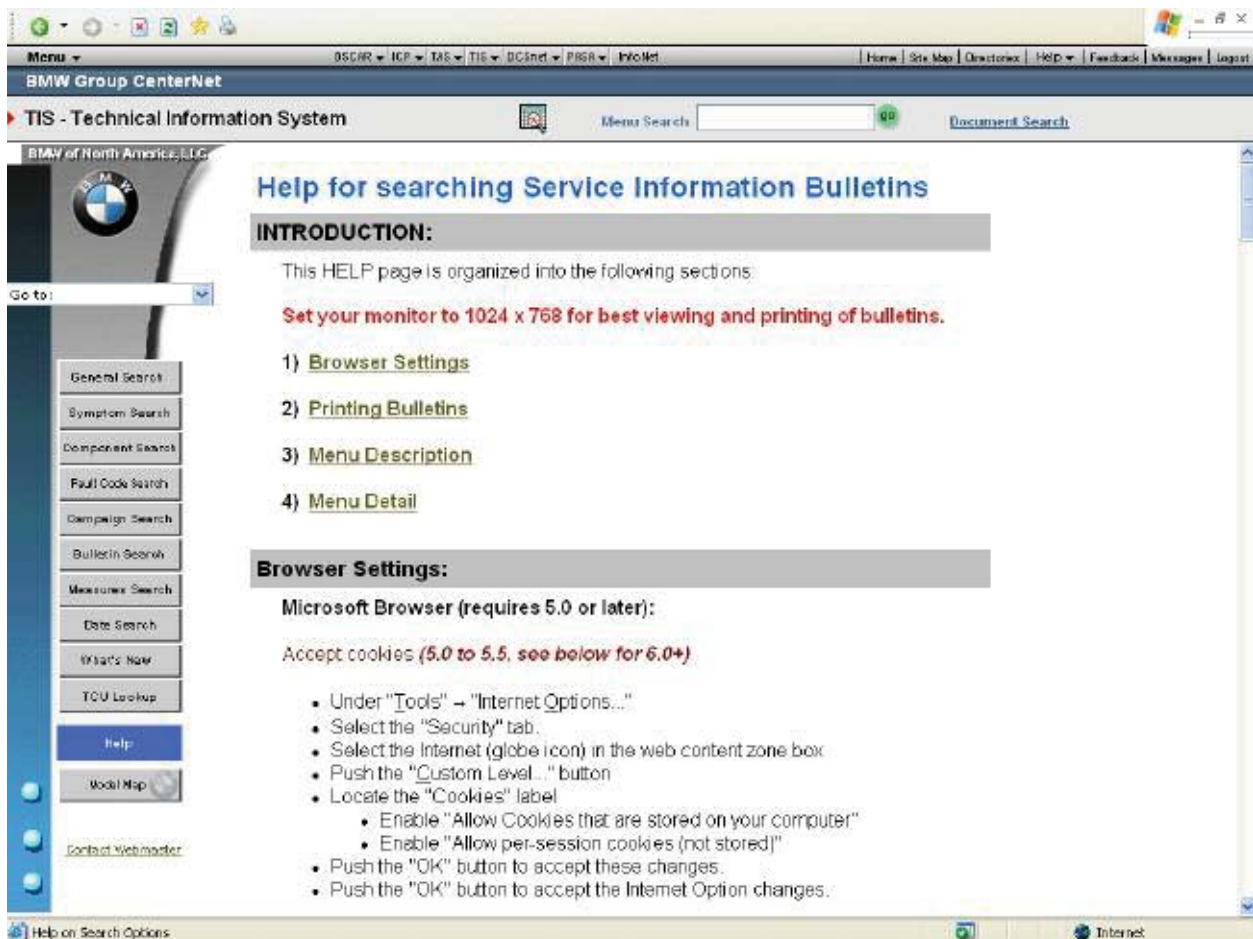
This searches for Bulletins and Measures added in the last:

- 3 days
- 7 days
- 14 days
- 30 days



Help

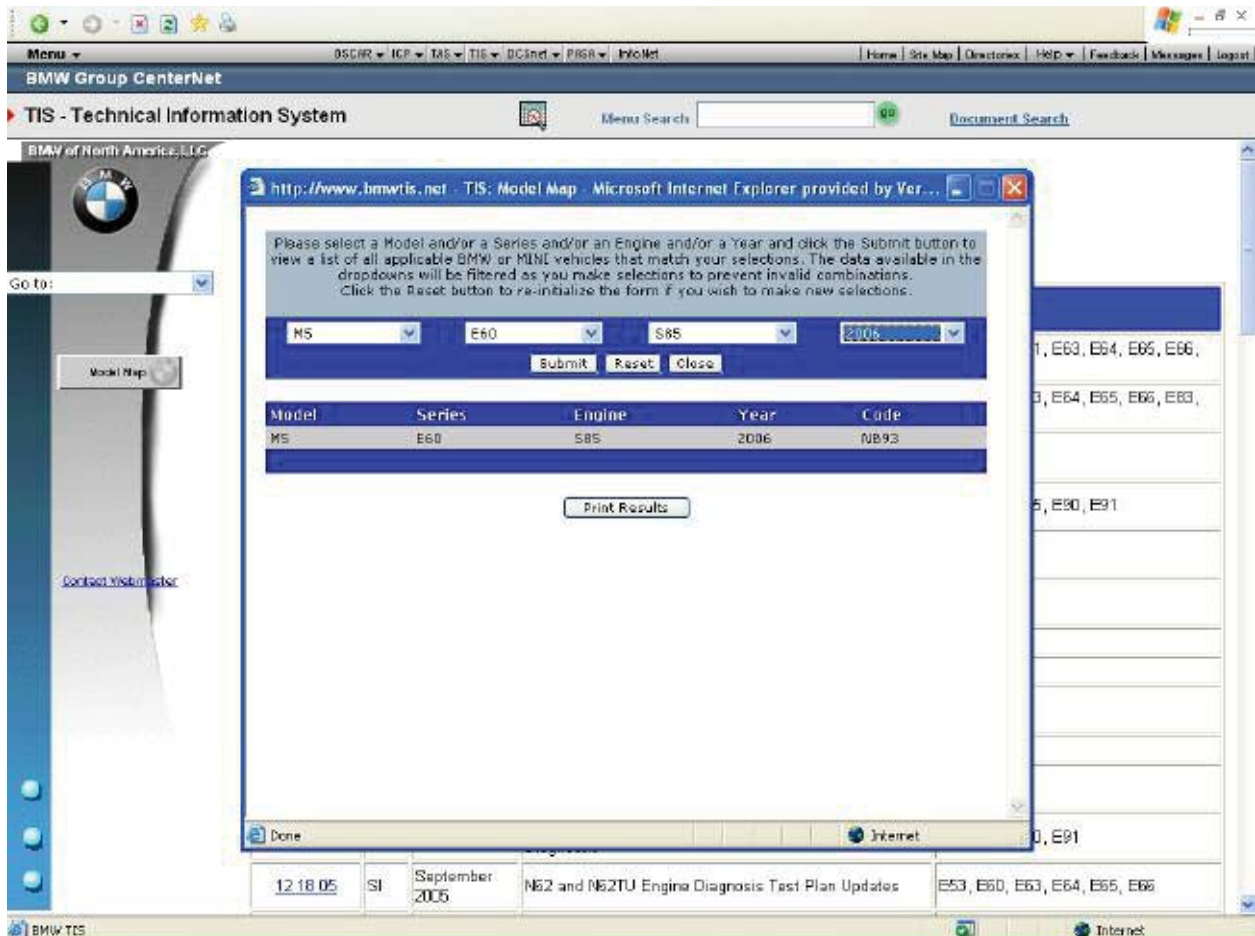
If any help is needed for searching for a bulletin, this option gives a brief explanation on how to use the bulletins and measures search feature of WebTIS.



Model Map

Allows the technician to find information on vehicle series, engine, and model year.

The model map is based on digits 4-7 of the VIN. These numbers determine the breaks in major changes during production.

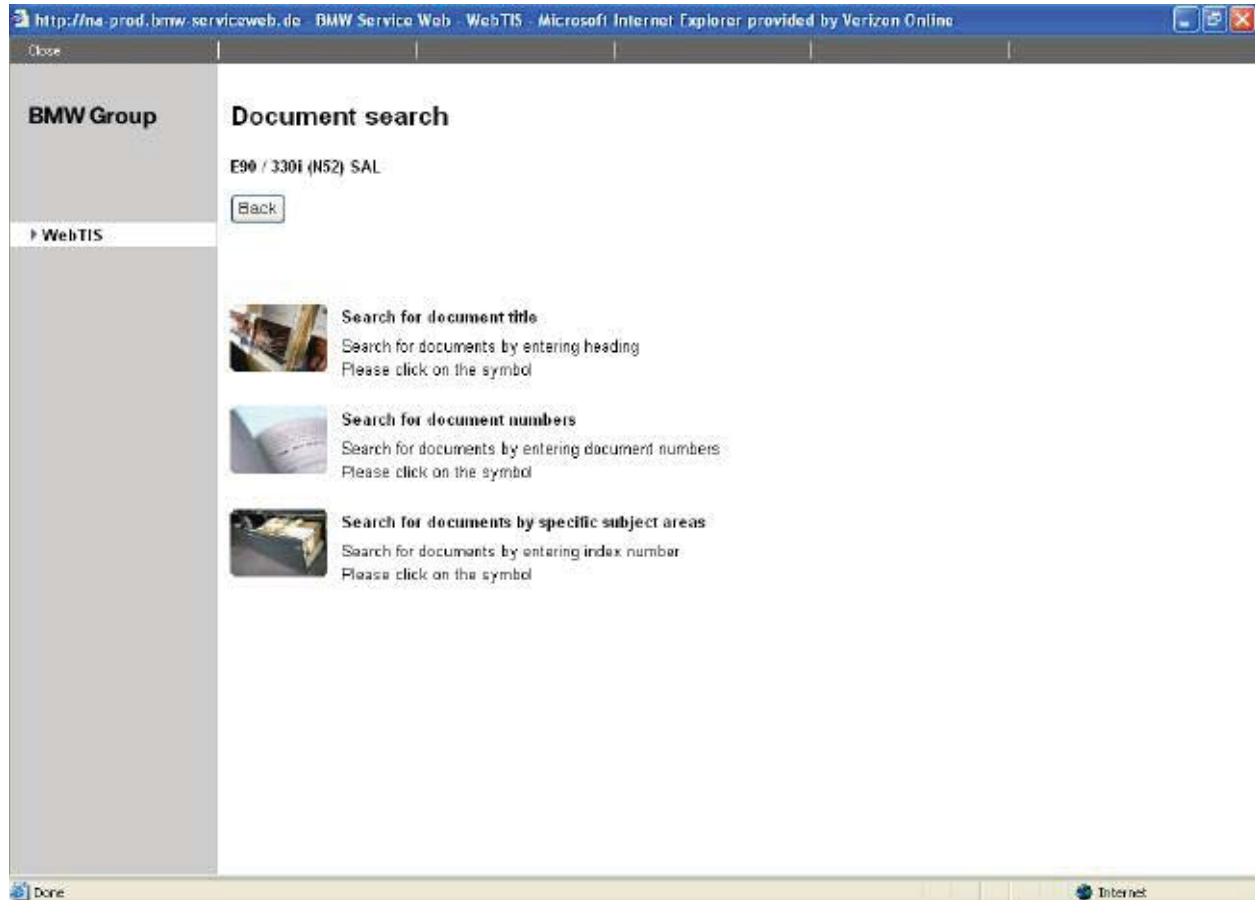


Service Technology Bulletins (SBT)

Selecting SBT links you to the repair information page.

An SBT may be search for by:

- Exact Number
- Subject Area/Group Number



Service Technology Bulletins (SBT)

The screenshot shows the BMW Group WebTIS search interface. The page title is "Search for document numbers". The user is logged in as "E90 / 330i (N52) SAL". There is a "Back" button. Below the login information, there is a prompt: "Please enter the document number (At least the first two digits)". A text input field contains "11030485" and a "Find" button is next to it. The search results are displayed in a table:

Document number:	Description:
SBT 11030485	N52 engine F60, E61, E63, E64, E65, E66, E67, E90, E91

At the bottom of the results, it says "Document 1 - 1 (1)" and "Go to page 1". The browser's address bar shows "Done" and "Internet".

Search for Document Via the Exact Number Path

The screenshot shows the BMW Group WebTIS search interface. The page title is "Search for subject areas". The user is logged in as "E90 / 330i (N52) SAL". There is a "Back" button and a "Continue" button. Below the login information, there are two dropdown menus. The "Document type" dropdown is open, showing options: "Repair instructions", "Technical data", "Tightening torques", "S/T techniques", and "Special tool". The "Main Group" dropdown is also open, showing options: "12 Engine electrical syst...", "13 fuel system", "16 fuel supply system", "17 cooling system", "18 Exhaust system", "21 clutch", "22 Engine and gearbox sui...", and "23 Manual transmission". The search results are displayed in a table:

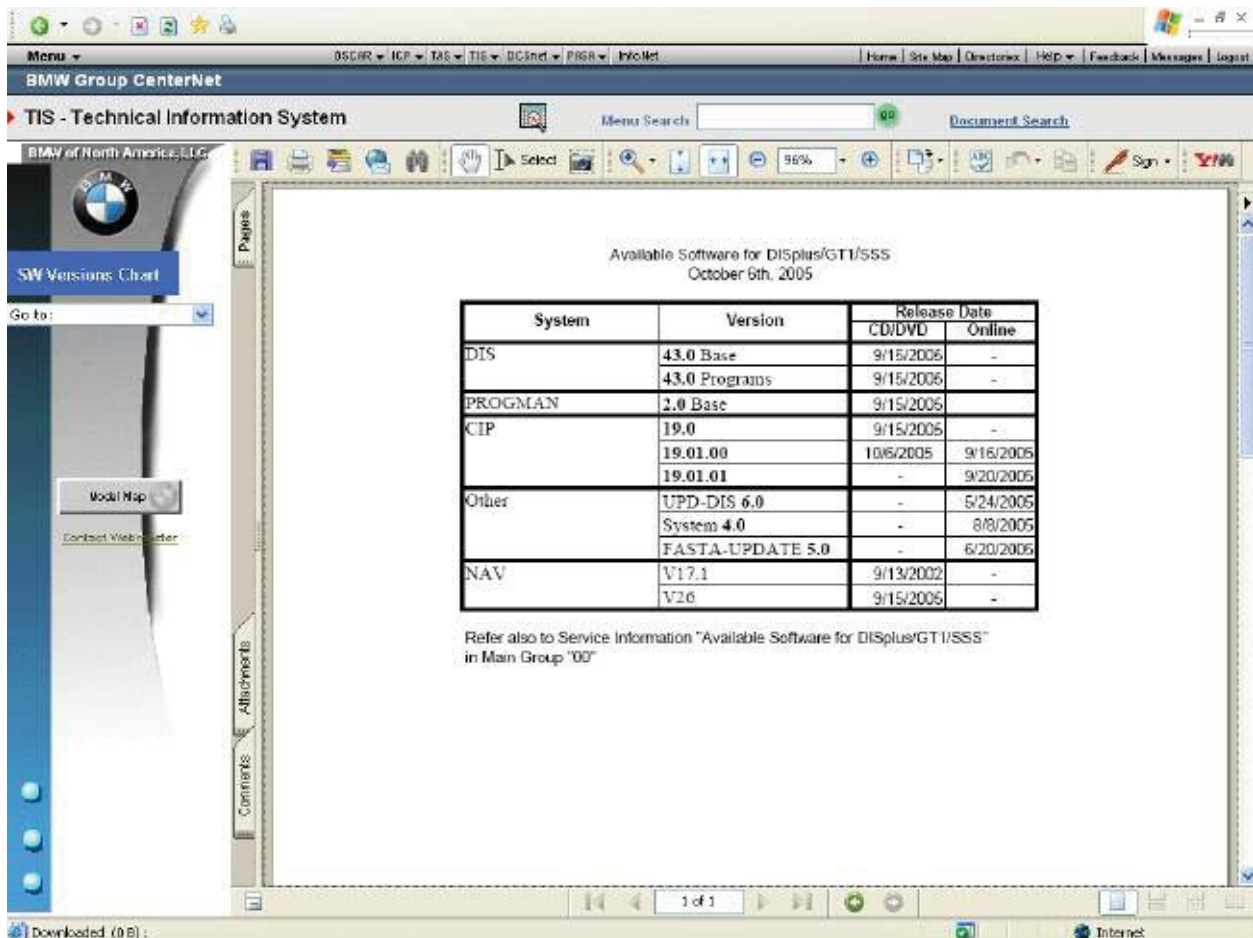
Document number:	Description:
SBT 001304134	Functions changed after vehicle programming E90, E91
SBT 000504178	Functions changed after vehicle programming E60, E61, E63, E64, E65, E66, E67, E90, E
SBT 009599000	All publications -New features and archive 09/2005

At the bottom of the results, it says "Document 1 - 3 (3)" and "Go to page 1". The browser's address bar shows "Done" and "Internet".

Search for Document Via the Group Path

SW Version

This feature allows the user to obtain information on the latest software versions available for the workshop diagnostic and programming equipment (SSS, GT1, and DISPlus).



Operating Fluids

This feature allows the technician to find the proper operating fluids used in BMW vehicle by group number.



Technical Training

Allows access to technical training manuals online in portable document format (PDF).

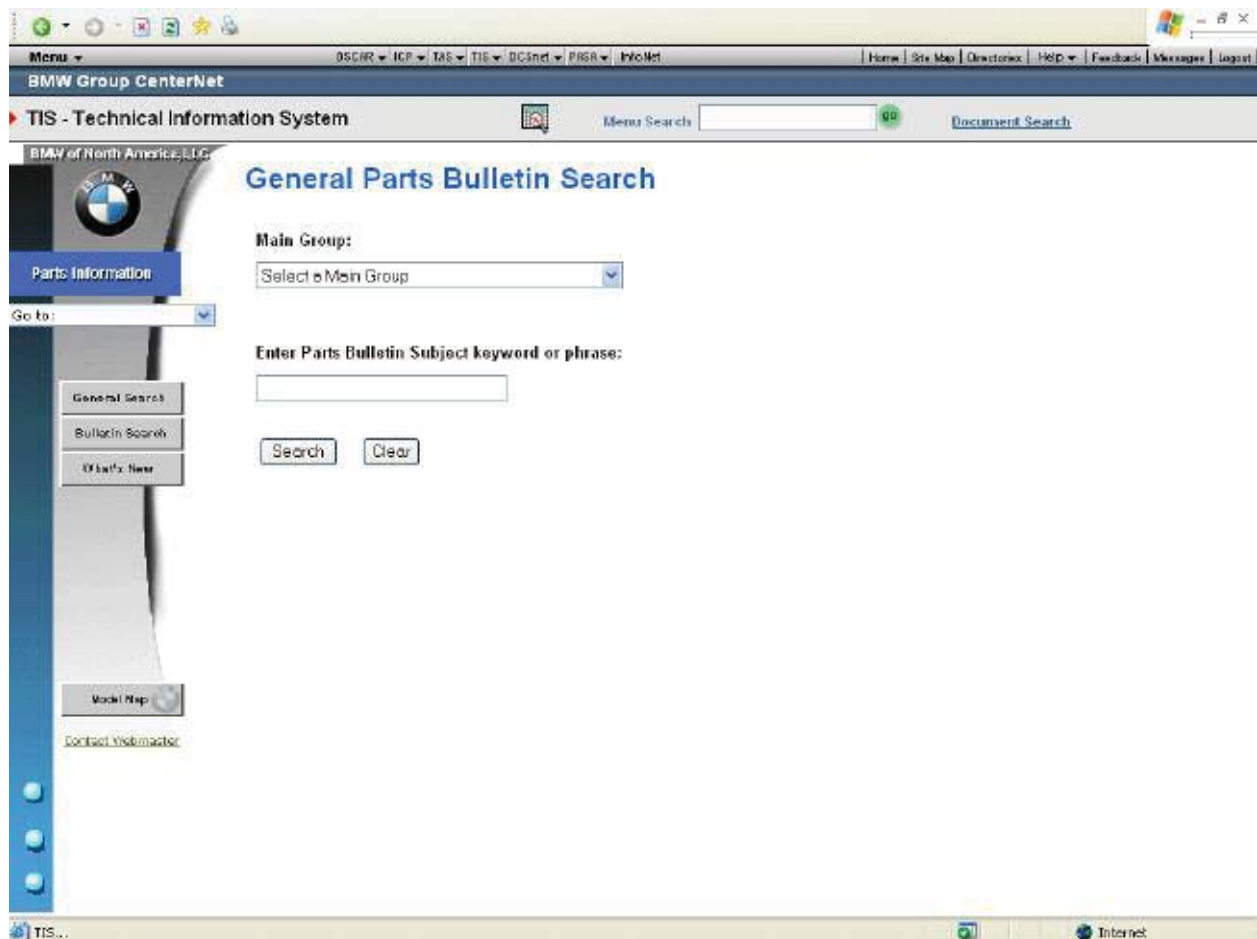
This can be extremely helpful for the workshop environment, but also allows a technician access to the training material before actually attending a class.



Parts Information

Allows access to parts information bulletins via:

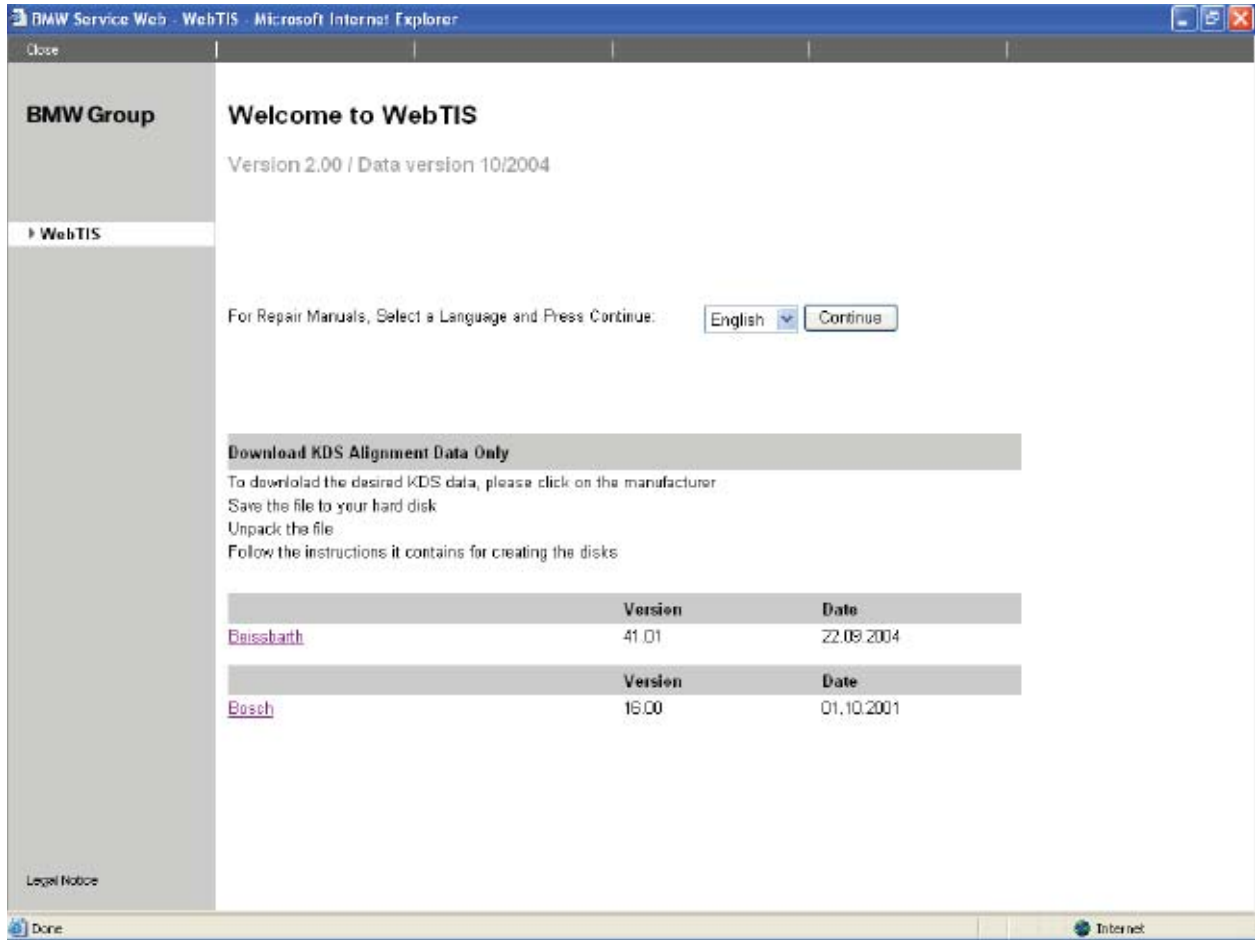
- General Search
- Bulletin Search
- What's New



Repair Information

Allows access to:

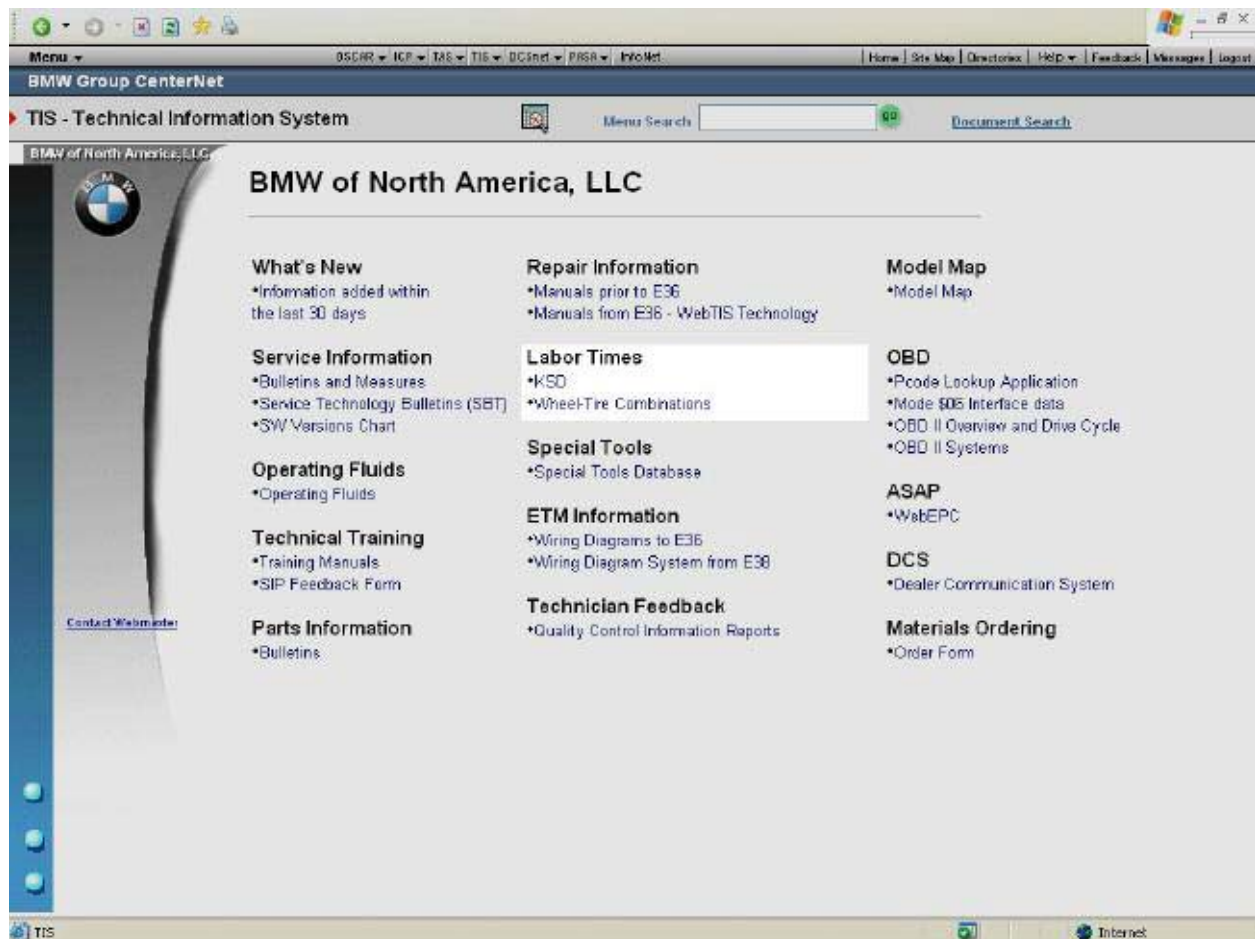
- Repair Instructions
- SBT
- Tightening Torques
- Technical Specifications



Labor Times

Labor times is sub-divided in the following sections:

- KSD
- Wheel - Tire Combination

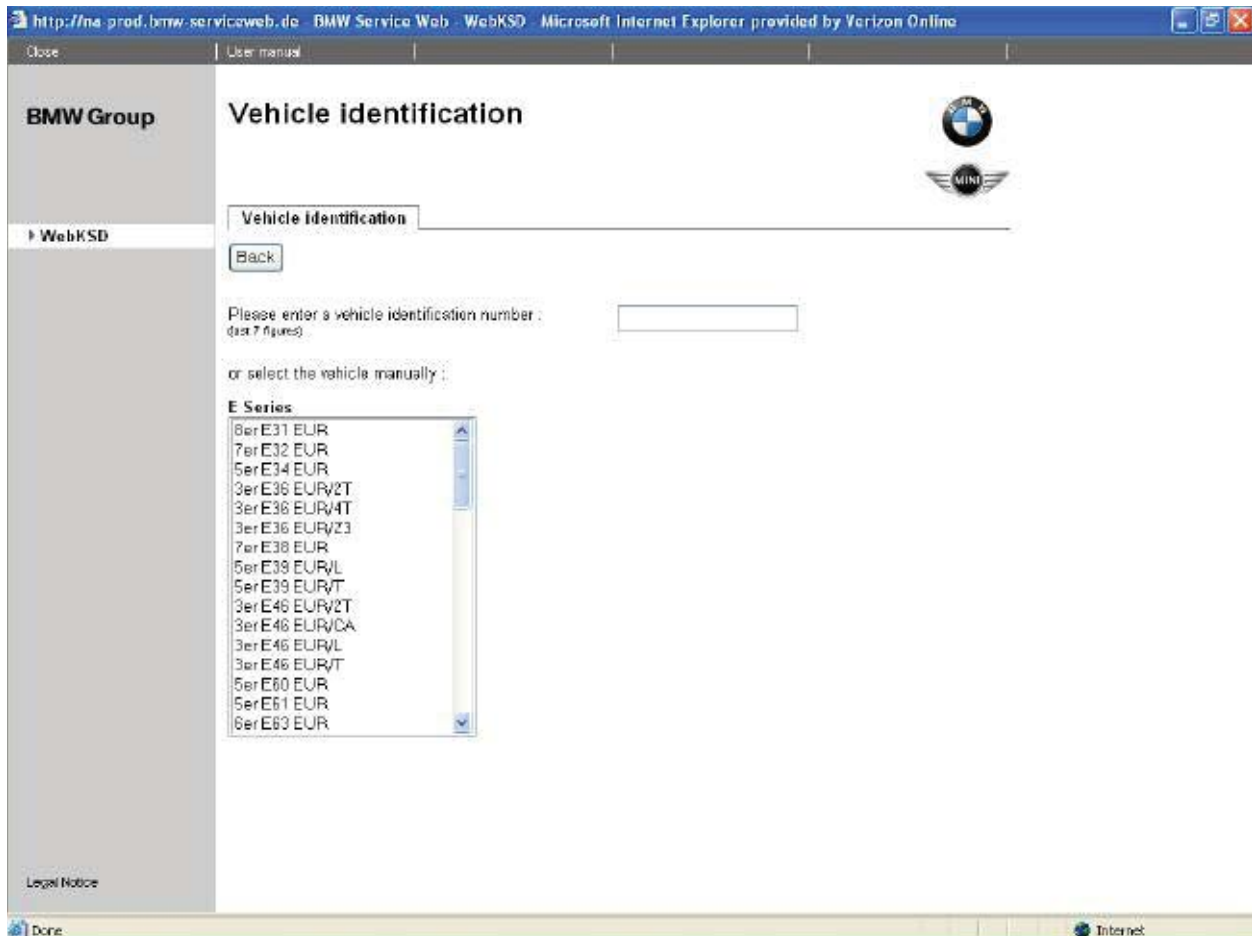


KSD

Allows access to labor times
(flat rate times).

To aid in the labor time search:

- If possible have the part number for the part being replaced or repaired.
- Have the chassis number (last 7 digits of the VIN) or the model map information (VIN digits 4-7) available to refine search .



Wheel - Tire Combinations

Entering this option allows access to information on approved BMW wheel and tire combinations.



http://na-prod.bmw-serviceweb.de/web_root/modules/rdr/browse.html?radreifen_sprache= - Microsoft Internet Explorer provided by

Close

E90:	320iA (N46B20OL), 320i4A (M47D20TU2OL)	325iA (N52B25OL)	330iA (N52B30OL)
MY	Styling overview		
2005			


Wheel/tire combinations MY 2005

Model series 3 (E90) Status 04/2005

[Wheel/tire combination Homepage](#)

[Old model series](#)

- [E46](#)
- [E53](#)
- [E60/E61](#)
- [E63/E64](#)
- [E65/E66](#)
- [E67](#)
- [E83](#)
- [E85](#)
- [E97](#)
- [E90/E91](#)
- [MINI](#)
- [Snow chains](#)
- [Tire makes](#)
- [Runflat Information](#)

 [BMW M-GmbH](#)

Tyre size	Pressed steel wheel (PS)	Light-alloy wheel (LA)	IS num	Styling No.	
				PS	LA
Summer:					
225/45 R 17 91 W	RSC -	8J x 17 EH3	34	-	324,158,159,160,161
17" mixed tyres: 1)					
FA: 225/45 R 17 91 W	RSC -	8J x 17 EH3	34	-	161
Rear axle: 255/40 R 17 94W RSC	-	8 1/2 x 17 EH2	37	-	161
18" mixed tyres: 1)					
FA: 225/40 R 18 88 W	RSC -	8J x 18 EH3	34	-	162,195,196
RA: 255/35 R 18 90 W	RSC -	8 1/2 x 18 EH2	37	-	162,195,196
19" mixed tyres: 1) 2)					
FA: 225/35 R 19 88 Y XL	RSC -	8J x 19 EH3	37	-	179,199
RA: 255/30 R 19 91 Y XL	RSC -	9J x 19 EH2	39	-	179,199
Winter (M+S):					

Done Internet

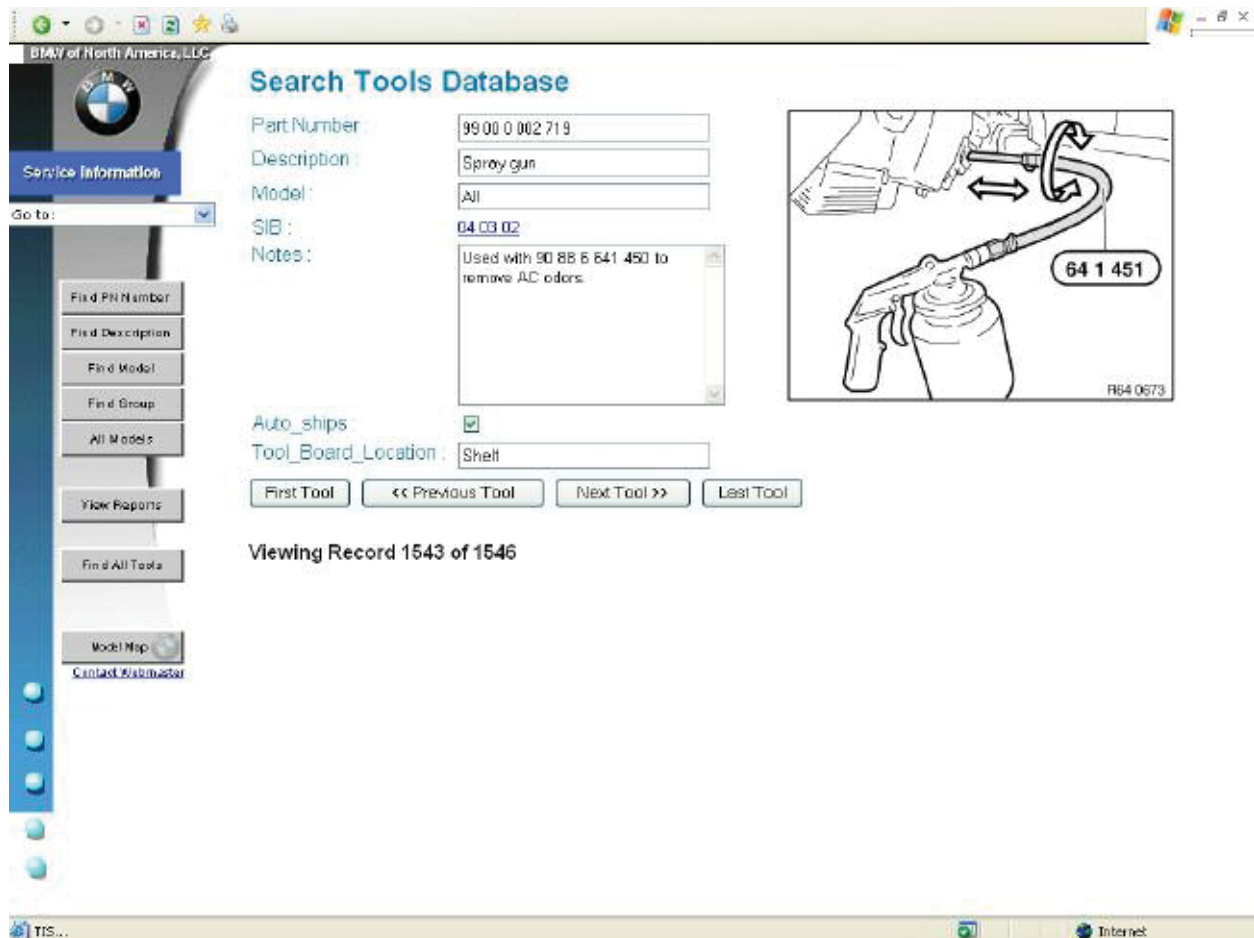
Special Tools

Allows access to special tool information based on:

- Part Number
- Description
- Vehicle Model
- Main Group Number
- All models



Note: Usually the most reliable and direct method of knowing what special tools are needed should be obtained from the repair instructions.



ETM Information

Allows access to the web based electric trouble shooting diagrams.

The diagrams for the BMW vehicles is divided in two. The division was made with the introduction of the E38 7 Series in 1995.

Wiring diagrams before the E38 are displayed online as scanned images of the paper version ETM. The diagram from E38 are displayed in a navigation window.

Included in some of the wiring diagram menus is a functional description of the system.

The screenshot shows the BMW Group CenterNet website interface. At the top, there is a navigation bar with links for Home, Site Map, Director's, HELP, Feedback, Messages, and Logout. Below this is the 'BMW Group CenterNet' header, followed by 'TIS - Technical Information System' and search fields for Menu Search and Document Search. The main content area is titled 'BMW of North America, LLC' and features a grid of menu items:

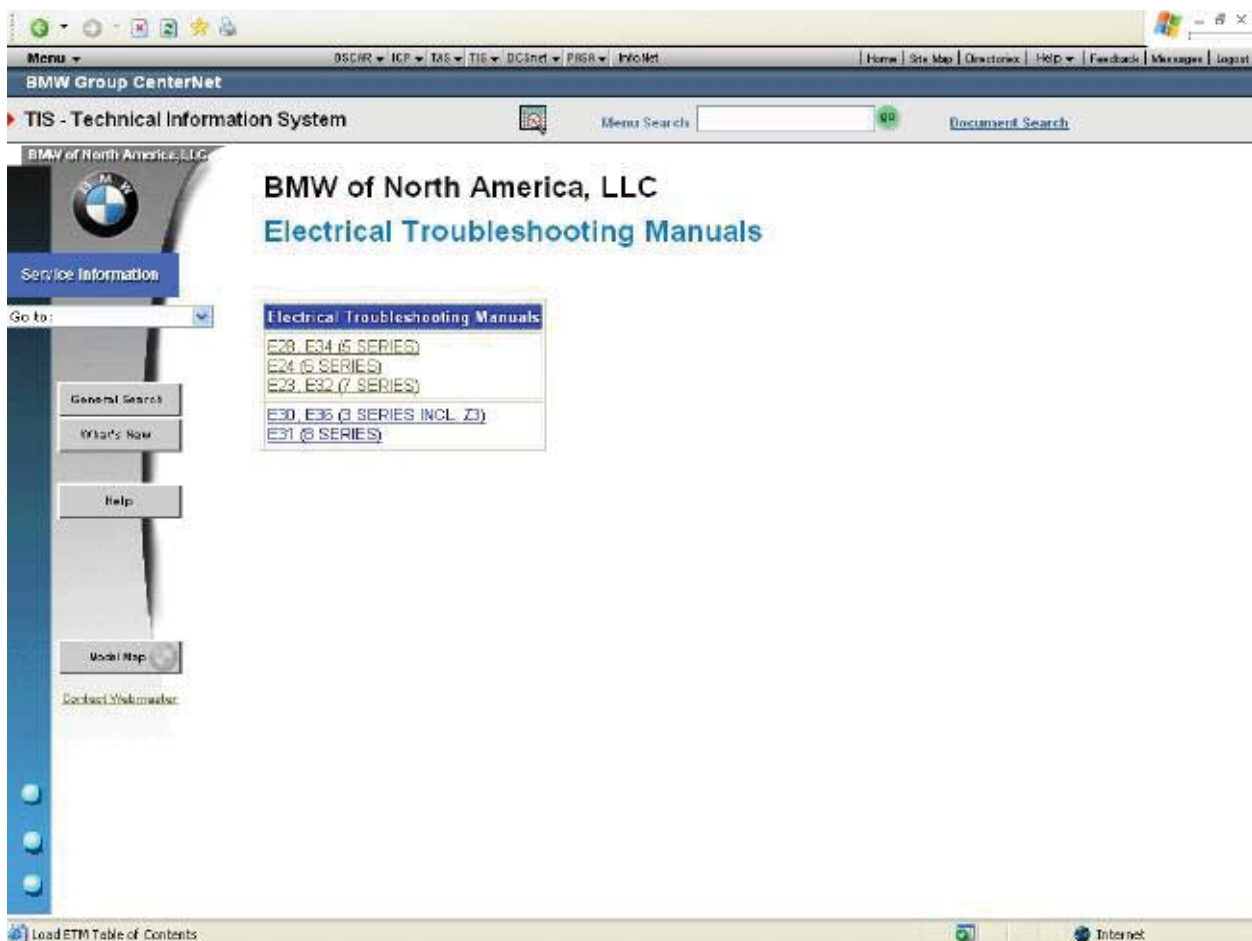
- What's New**
 - Information added within the last 30 days
- Service Information**
 - Bulletins and Measures
 - Service Technology Bulletins (STB)
 - SW Versions Chart
- Operating Fluids**
 - Operating Fluids
- Technical Training**
 - Training Manuals
 - SIP Feedback Form
- Parts Information**
 - Bulletins
- Repair Information**
 - Manuals prior to E36
 - Manuals from E36 - WebTIS Technology
- Labor Times**
 - KSD
 - Wheel-Tire Combinations
- Special Tools**
 - Special Tools Database
- ETM Information** (highlighted)
 - Wiring Diagrams to E36
 - Wiring Diagram System from E38
- Technician Feedback**
 - Quality Control Information Reports
- Model Map**
 - Model Map
- OBD**
 - Code Lookup Application
 - Mode \$05 Interface data
 - OBD II Overview and Drive Cycle
 - OBD II Systems
- ASAP**
 - WebEPC
- DCS**
 - Dealer Communication System
- Materials Ordering**
 - Order Form

The bottom of the page shows a taskbar with 'TIS' and 'Internet' icons.

ETM Before E38

Allows access to ETMs of the following chassis numbers:

- E24
- E23
- E28
- E30
- E32
- E34
- E31
- E36



ETM From E38

Allows access to ETMs of the following chassis numbers:

- E38
- E39
- E46
- E87
- E90/91
- E60/61
- E63/64
- E65/66
- E83
- E53
- E85
- E52



WDS BMW Wiring Diagram System - Model 3 E90

Navigation buttons: << Models, Print, Close, Home, <<, >>

Left sidebar navigation tree:

- Complete vehicle
 - Drive
 - Chassis
 - body
- Component and signal information
 - Components
 - Signals
 - Plug-in, combi-type and solder connectors
- Services functions
 - Maintenance
 - Drive
 - Chassis
 - body
 - Vehicle information

Right sidebar: Operation and Navigation

- Clicking on Symbol opens the navigation tree.
- Clicking on Symbol closes the navigation tree.
- Clicking on the lower left **New** button closes the navigation tree completely.

Searching

- Enter a search term in the lower left textfield.
- Click on the **Search** button.
- The navigation tree will open at the position where the term is to be found.

Important functions:

- Zoom and move wiring diagrams with the mouse
- Hotspots in Wiring Diagrams
- Symbols in the Navigation Tree
- Enlarge the display section
- Wiring Diagram Symbols and Wire Colors

See the [Online Help](#) for a detailed description of all functions.

Zoom and move wiring diagrams with the mouse

Zoom in view	Zoom out view	Move current view
Ctrl + Left Mouse Button	Ctrl + Shift + Left Mouse Button	Alt + Left Mouse Button

Alternatively you can use the buttons in the lower button bar

Bottom bar: Enter search term, Search, New, navigation arrows, zoom in/out, search, and Internet icons.

Technician Feedback

Technicians can inform the quality service and engineering department via this form.

The technician feedback form is a method the quality service and engineering department utilizes to document any irregular condition encountered while a technician is diagnosing a vehicle.

Irregular conditions can be in the vehicle, workshop equipment, or errors in documentation (ex. ETM, SIB, etc.).



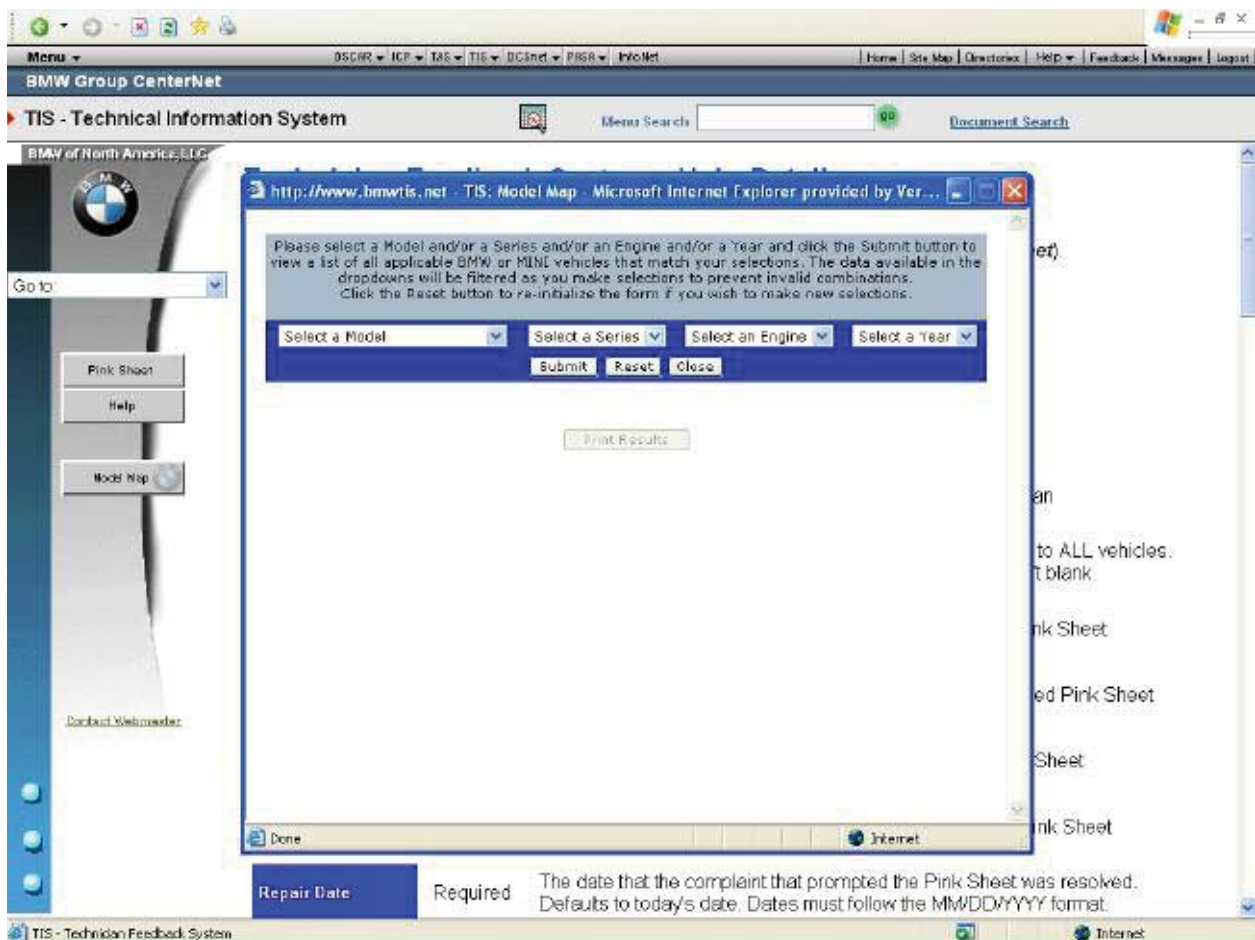
Note: Please fill out as much information as possible.

A screenshot of the "Technician Feedback System" form within the BMW Group CenterNet TIS. The form is titled "Technician Feedback System" and includes instructions: "This form is used to enter Quality Control Report Information - Pink Sheets. Required fields are denoted by the * character. Note that dates must follow the MM/DD/YYYY format. Press the Submit button located at the bottom of this form to add the data to the web site database." The form contains several input fields and dropdown menus: "First Name*", "Last Name*", "Dealer Code*", "Title" (dropdown), "Model" (dropdown), "Series" (dropdown), "Body" (dropdown), "Engine" (dropdown), "Repair Date*" (text), "Production Date" (Month and Year dropdowns), "Chassis No" (text), "Mileage" (text), "Replacement Part No." (text), "Main Group*" (dropdown), "Sub Group" (dropdown), and "Internal Group" (dropdown). A "Submit" button is located at the bottom of the form. The page also features a navigation menu at the top and a sidebar on the left with buttons for "Pink Sheet", "Help", and "Model Map".

Model Map

Allows the technician to find information on vehicle series, engine, and model year.

The model map is based on digits 4-7 of the VIN. These numbers determine the breaks in major changes during production.

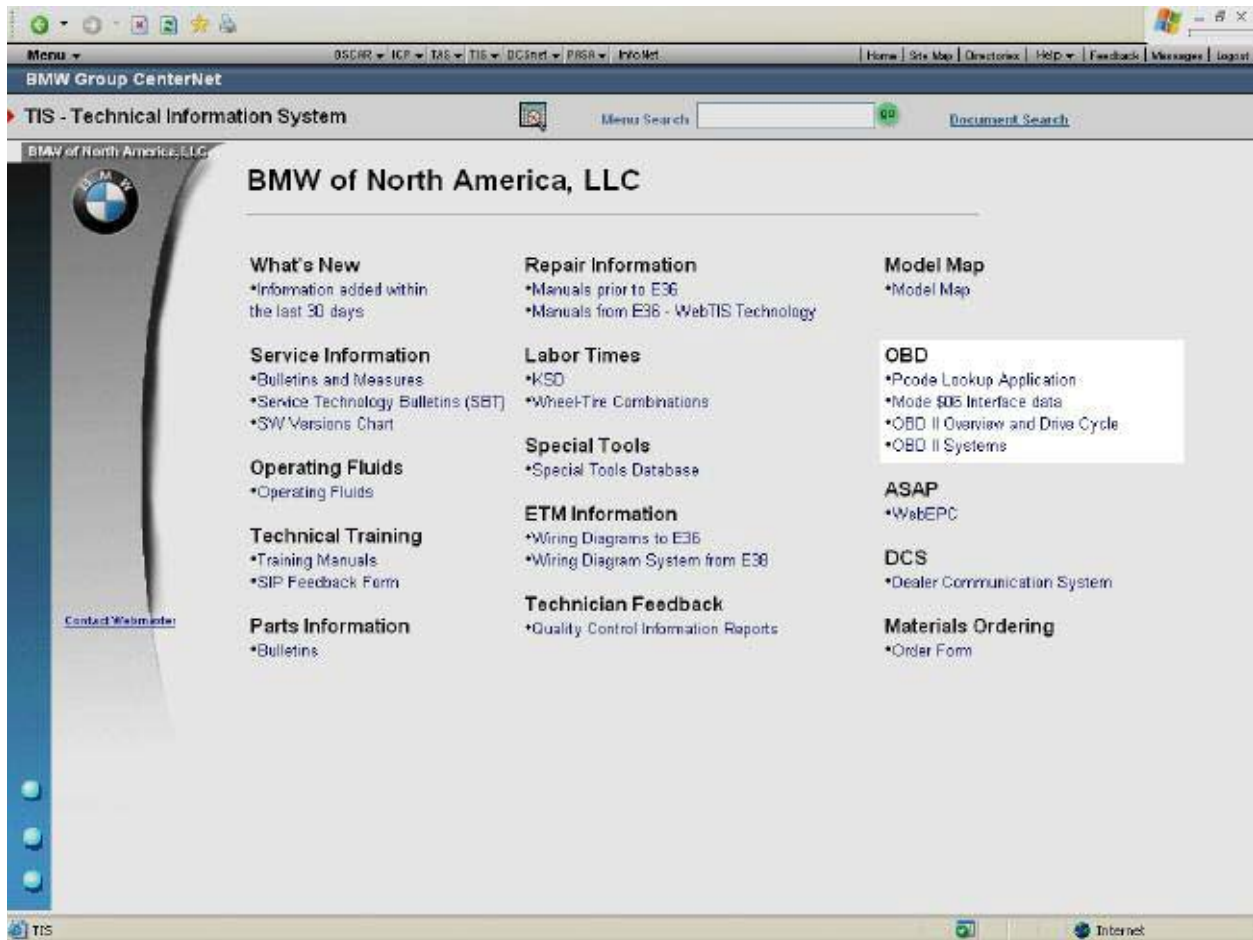


OBD

All OBD information is stored under this option.

The following menus are available:

- Pcode table
- Pcode Lookup Application
- Model \$06 Interface data
- OBD II Overview and Drive Cycle
- OBD II Systems

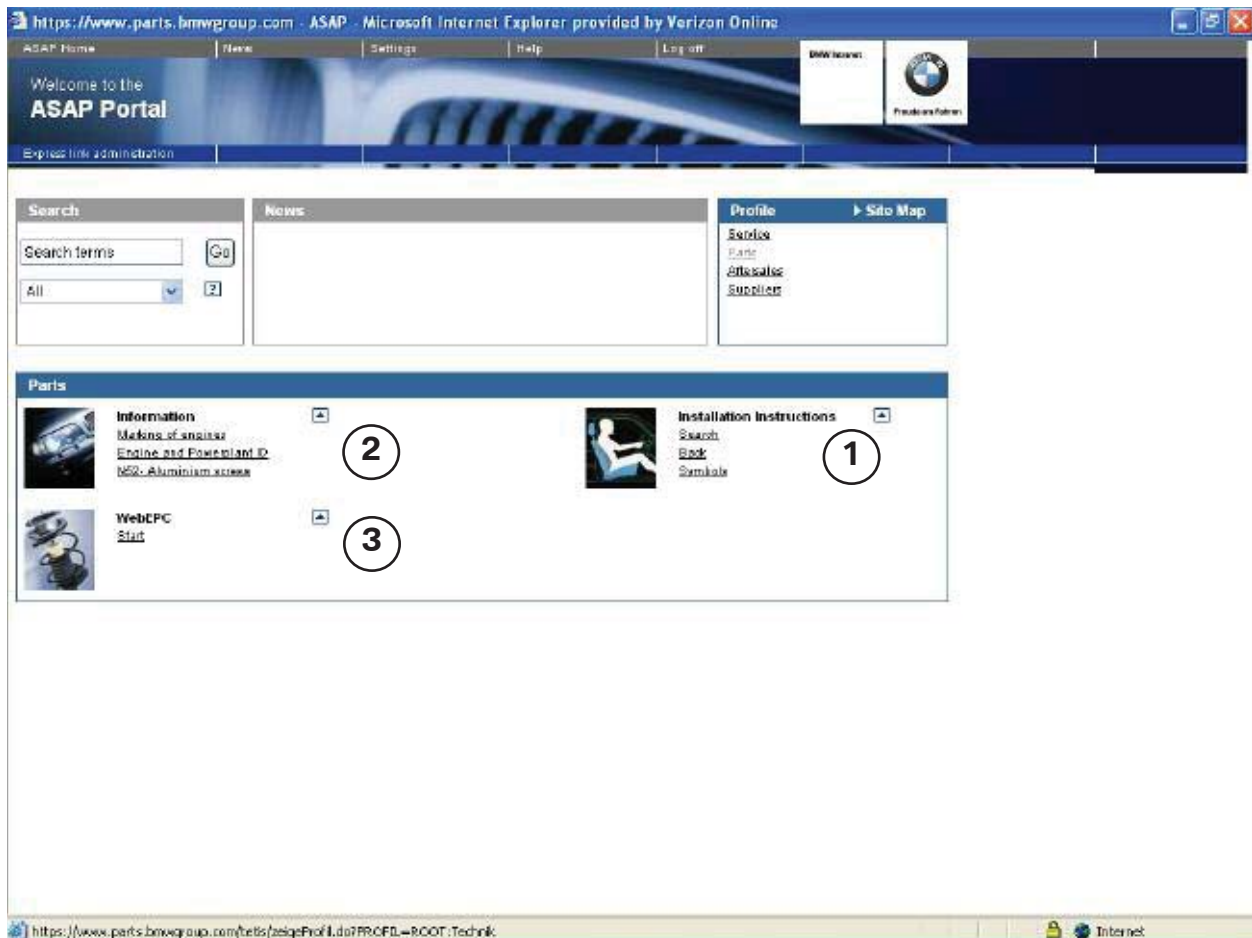


ASAP

Aftersales and Assistance Portal

This option is utilized to access information on:

1. Installation Instructions on original BMW accessories
2. Parts Information
3. Web Based Electronic Parts Catalog



DCS

Dealer Communication System

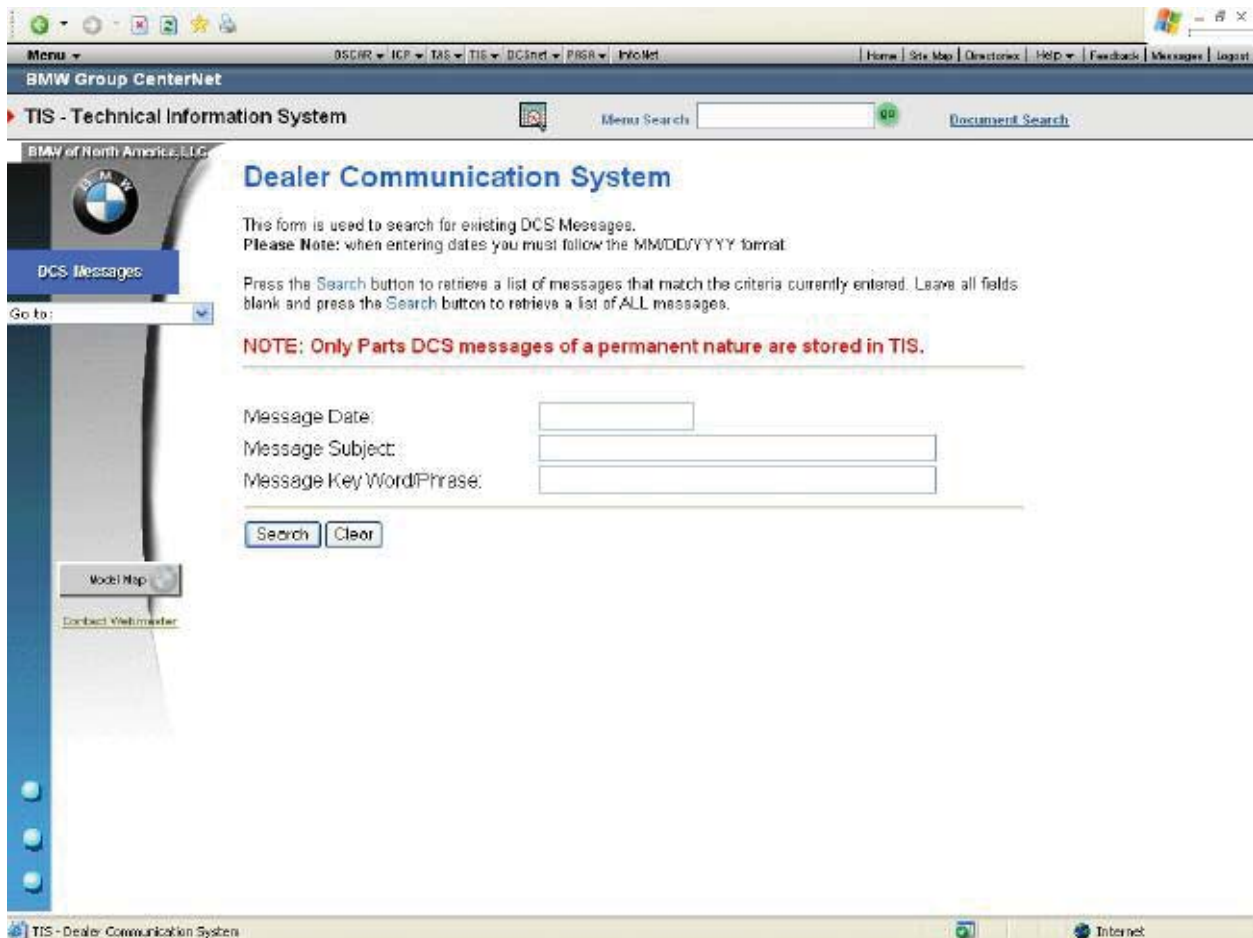
Allows a search of DCS messages released.

The DCS message may be searched by:

- Date
- Subject
- Keywords or Phrases



Note: If all DCS messages stored need to be recalled, leave all fields blank.

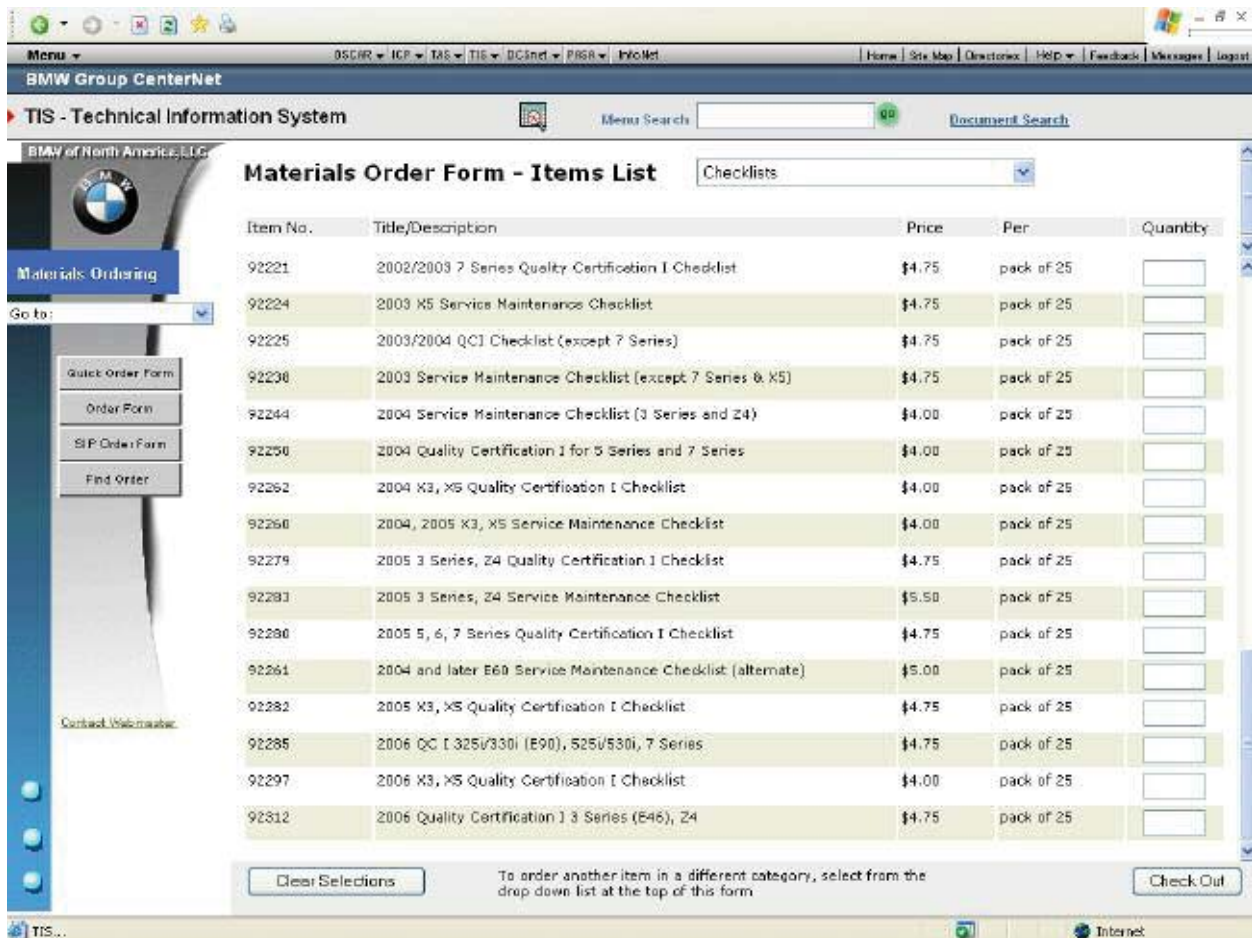
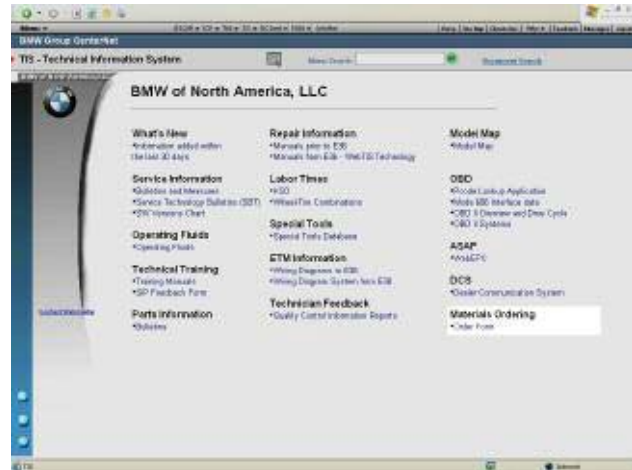


Materials Ordering

Several engineering information material have special SD part numbers. These part numbers cannot be ordered via the conventional parts ordering system. They have to be ordered via this interface.

Examples of material ordered here are:

- Inspection Checklists
- QC1 Checklists





Classroom Exercise - ETM

Please reference the diagram for a 2006 BMW 330i (E90) unless otherwise stated.

1. *Where can you find a list all of the fuses used in the vehicle?*

2. *What color wire is described as BR/WS/GE?*

3. *From which control module does the antenna diversity module receive operating power?*

4. *On a Pin Assignments page, what does the A, M, and E in the type column signify?*

5. *What does the letter "R" at the top of a fuse in an ETM diagram indicate?*

6. *How does a block diagram differ from a regular ETM diagram page?*

7. *What important notes must be considered when disabling a key (EWS)?*

8. *What pin number is an input to the engine control module (ECM) from the coolant temperature sensor?*

9. *What does an "X" by a component number represent? (example: X6000)*

10. *What is component A421 and where is it located?*

11. *How many wires are used in the connector going to the EWS antenna ring? (E83)*

12. *What is the connector and pin number of the unlocking signal from the driver's door system lock to the FRM control unit?*

13. *How many satellite sensors does the alarm system on an E64 convertible utilize?*



Classroom Exercise - TIS

1. *At what temperature should the transmission fluid be checked and what special tools are needed to perform the operation?*

2. *What is the first step in performing an oil change on a BMW 330i?*

3. *What is the tightening torque of the engine oil drain plug for a N62 engine?*

4. *What is the release sequence for the cylinder head bolts on a S85 engine?*

5. *What is special tool 613 120 used for?*

6. *What is the specification for the compression ratio of a S54 engine?*

7. *What is the specification of the Glovebox light bulb used in the E60?*

7. *What software version should the workshop equipment be utilizing?*

8. *What is the part number for a rear view mirror on a E85 with automatic-DIP and universal remote capabilities? How many FRUs does it pay to install the mirror?*

9. *What should the fuel pressure be on a X5 4.8is?*

10. *Where are the vehicle ride height measurements taken on a Z3? Are any special tools needed? If so, what is the tool number?*

11. *What bulletin references the loss of power while decelerating and turning or coming to a stop on an E65 vehicle?*

12. *What bulletin references a foul odor coming from the air ducts?*

13. *What bulletin references fault code 6141 on an E60 equipped with AFS?*
